TRANS TECH CONSULTANTS

Environmental Compliance Services Engineers • Geologists • Planners License # 697833 (A-Haz)

April 12, 2005 Job No. 3046.01

Mr. John Scarbrough 104 Franklin Street Fortuna, California 95540

Subject:

1st Quarter 2005 Monitoring Report

Ferndale Motors, 638 Main Street, Ferndale, California

LOP No. 12343

Dear Mr. Scarbrough:

This report presents the result of the 1st Quarter 2005 groundwater monitoring and sampling event conducted at the subject site. The site is approximately located as shown on the attached Site Location Map, Plate 1. The work was performed in accordance with directives from the Humboldt County Department of Health and Human Services Division of Environmental Health.

Monitoring Well Sampling

On March 15, 2005, groundwater samples were collected from monitoring wells (wells) MW-1 through MW-6 and piezometer PZ-1. The approximate well locations and general site features are shown on the attached Site Plan/Groundwater Elevation Contour Map, Plate 2. Prior to sampling, static water levels were measured and each well was checked for the presence of free product using an oil/water interface probe. No free product was reported during this sampling event. To produce representative samples prior to sampling, the wells were then purged of approximately three well casing volumes using a submersible pump. In addition, indicator parameters including the temperature, pH, and conductivity were measured during purging and recorded on the attached Groundwater Field Sampling Forms, Appendix A. The groundwater level in each well was allowed to recover to approximately 90% of its original static level prior to sample collection. Groundwater samples were collected using a separate disposable bailer for each well and transferred to the appropriate containers supplied by the laboratory. The groundwater samples were labeled, stored under refrigerated conditions and then transported under Chain-of-Custody documentation to Alpha Analytical Laboratories (Alpha) of Ukiah, California for chemical analysis. Groundwater removed during purging was stored onsite in 55-gallon DOT drums, pending disposal.

Water Level Measurements

Monitoring well top-of-casing (TOC) elevations, depths to groundwater, calculated water level elevations, and the calculated groundwater flow direction and gradient data for March 15, 2005 are presented in Table 1. Elevations are expressed in feet relative to mean sea level (msl), depths are expressed in feet and gradients are expressed in feet per foot. Historical groundwater flow direction and gradient data are attached in Appendix B.

Table 1: Groundwater Flow Direction and Gradient

Sample Date	Monitoring Well ID	Top-of-Casing Elevations (feet - msl)	Water Level Depth (feet)	Calculated Water Level Elevation (feet - msl)	Groundwater Flow Direction/Gradient (i)
	MW-1	47.69	7.36	40.33	
	MW-2	49.16	8.10	41.06	
03/15/05	MW-3	47.90	8.64	39.26	
	MW-4	46.79	7.84	38.95	Variable i = varies
	MW-5	48.14	6.75	41.39	1 (41.155
	MW-6	48.97	6.36	42.61	
	PZ-1	48.86	8.82	40.04	

Groundwater elevation contours based on MW-1 through MW-6, and PZ-1 for the March 15, 2005 monitoring event are shown on Plate 2. It appears that groundwater flows southerly towards MW-3 from Main Street and northerly towards MW-3 from the subject site which forms a trough - like feature.

Laboratory Analytical Results

Groundwater samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline (g) and TPH as diesel (d) using EPA Test Methods 8260/8015, respectively. The volatile organic compounds; benzene, toluene, ethyl benzene and xylene (BTEX), the additional oxygenated fuel additives including methyl tert-butyl ether (MtBE), and lead scavengers were analyzed using EPA Test Method 8260B. The samples were analyzed by Alpha which is a state-certified laboratory for the analysis requested. The laboratory analytical results for the March 15, 2005 event are presented on page 3, Table 2. The results for TPH-g, TPH-d, BTEX, and MtBE are expressed in micrograms per liter (μ g/L). The laboratory report and Chain-of-Custody documentation are attached in Appendix C. Historical groundwater sample results are presented in Appendix D.



Table 2: Groundwater Analytical Results

Sample	Monitoring	ТРН-д	TPH-d	В	т	E	x	MtBE			
Date	Well ID	μg/L									
	MW-1	4,100	780*	43	11	15	7.1	<2.5			
	MW-2	<50	<50	<0.30	<0.30	<0.50	<0.50	0.71			
	MW-3**	2,200	460*	270	<6.0	<10	<10	<10			
03/15/05	MW-4	<50	<50	<0.30	< 0.30	<0.50	<0.50	<0.50			
	MW-5	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50			
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50			
	PZ-1	<50	<50	<0.50	<0.30	<0.50	<0.50	< 0.50			

< = Less than the indicates laboratory test method detection limit.

Discussion

TPH-g was detected in groundwater samples collected from MW-1 and MW-3 at concentrations of 4,100 and 2,200 $\mu g/L$, respectively. TPH-d was detected in groundwater samples collected from MW-1 and MW-3 at concentrations of 780 and 460 $\mu g/L$, respectively. However, the laboratory noted that these results were primarily due to overlap from a gasoline range product. BTEX constituents were also detected in groundwater samples collected from wells MW-1 and MW-3 with benzene occurring at a maximum concentration of 460 $\mu g/L$. MtBE was detected in the groundwater sample collected from MW-2 at a concentration of 0.71 $\mu g/L$. Samples collected from wells MW-4 through MW-6, and PZ-1 were below laboratory test method detection limits for all the constituents analyzed.

The recent analytical results for wells MW-1 through MW-3 are generally consistent with historical concentrations of petroleum hydrocarbons and indicate that onsite impact remains greatest in the vicinity of MW-1 and MW-3. Time Vs. Concentration Graphs have been prepared for wells MW-1 and MW-3 and are attached in Appendix E.

The site is currently on a semi-annual sampling schedule. The next monitoring and sampling event is scheduled for September 2005. We are currently preparing a Remedial Action Plan to address residual impact at the site.

^{* =} Results in the diesel organics range are primarily due to overlap from a gasoline range product.

^{* =} Reporting Limits have been raised due to sample foaming.

We appreciate the opportunity to be of service to you and trust this provides the information you require at this time. If you have any questions, do not hesitate to contact us at (707) 575-8622 or www.transtechconsultants.com.

Sincerely, TRANS TECH CONSULTANTS

Brian R. Hasik Staff Geologist

Lee S. Hurvitz, PG 7573 Senior Geologist

QMR_3046_01_041205

Attachments: Plate 1, Site Location Map

Plate 2, Site Plan / Groundwater Elevation Contour Map

Appendix A, Groundwater Field Sampling Forms

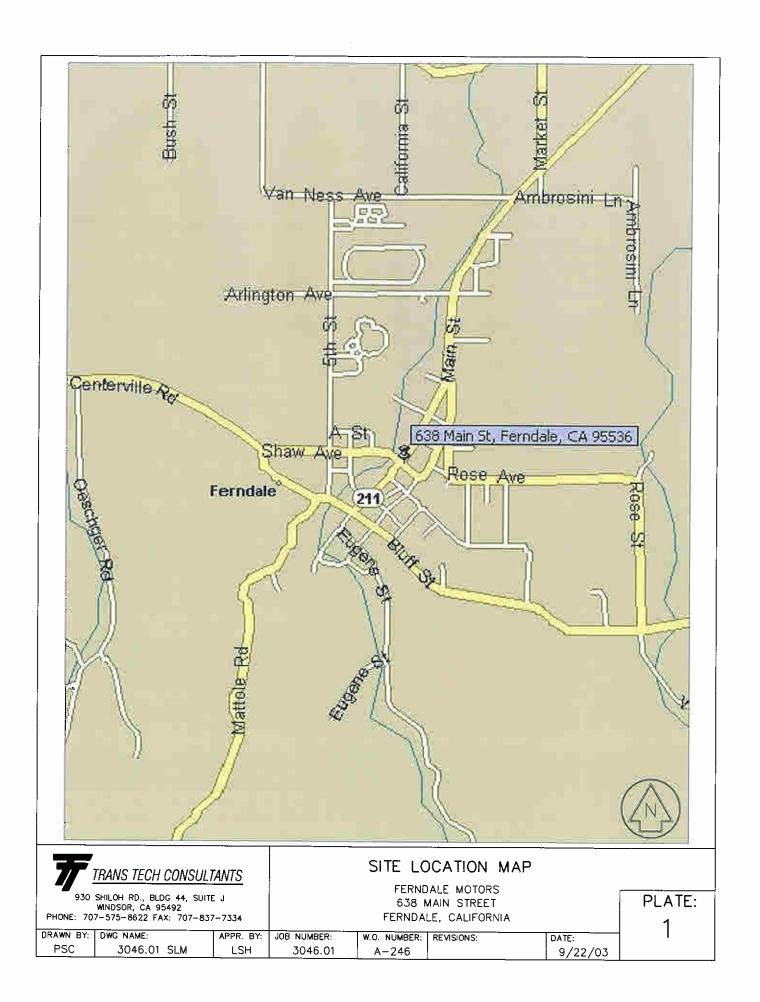
Appendix B, Historical Groundwater Flow Direction and Gradient Data Appendix C, Alpha Analytical Laboratory Report dated March 30, 2005

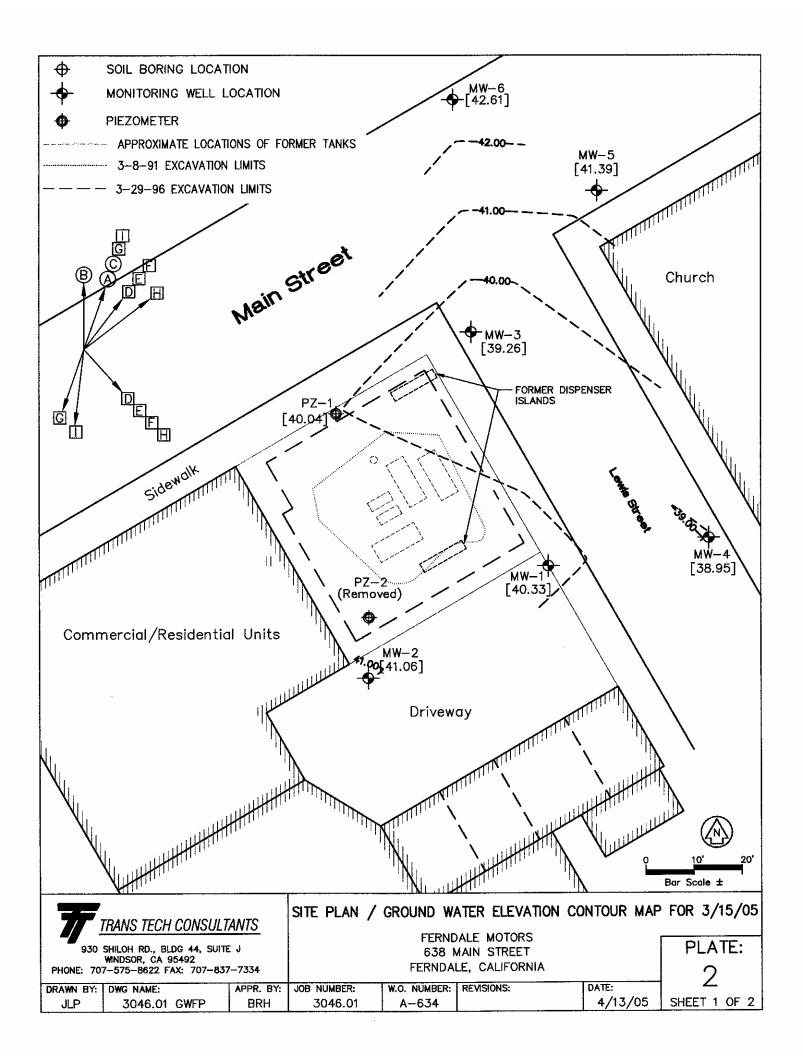
Appendix D, Historical Groundwater Analytical Results

Appendix E, Time vs. Concentration Graphs, MW-1 and MW-3

Distribution List

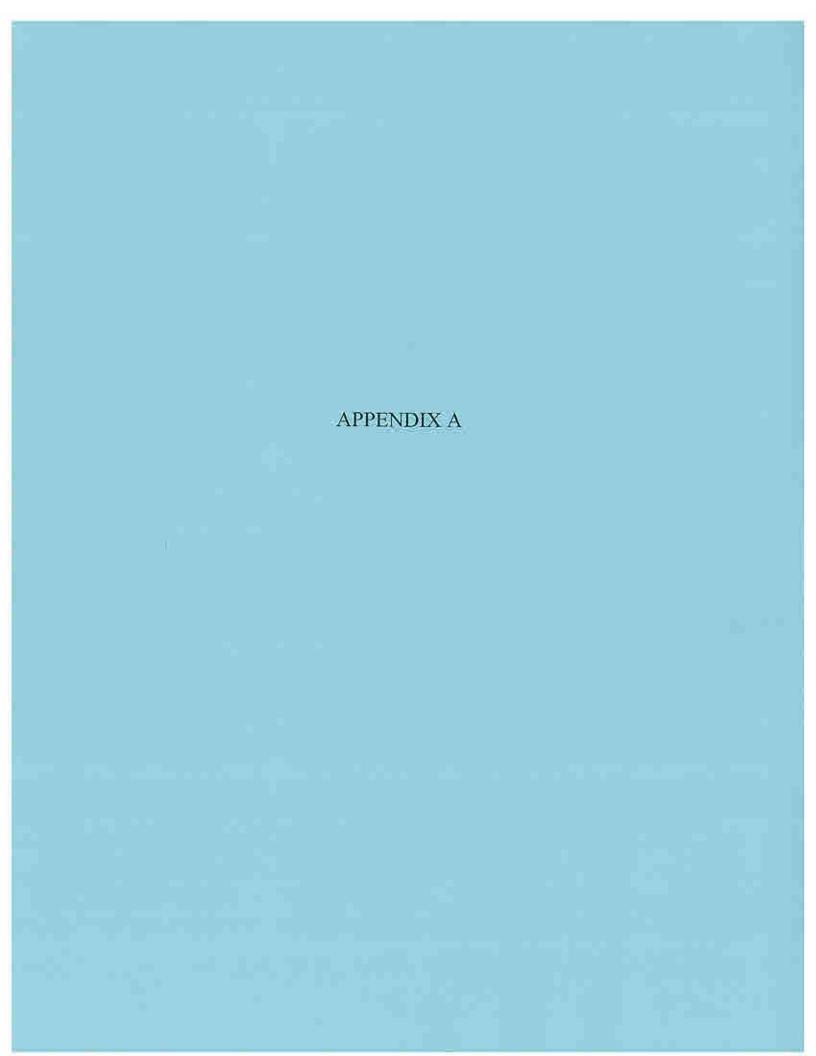






GROU	NDWAT	ER FLOW	LEGEND					
			it Contour oi = 0.5 ft)	ldentifler Tag	Date	Est. Flow Direction	Gradient Slope	→ ww_1 Monitoring Well Location
								MW-1 Monitoring Well Location [XX.XX] Groundwater Elevation
Identifier Tag	Date	Est. Flow Direction	Gradient Slope					
(A)	1/14/02	N20°E	i = 0.01					
B	4/22/02	NORTH	i = 0.03					NOTE: Ground water elevations are in feet above mean sea level (National
0	7/23/02	N20E	i = 0.01			. , . ,		Geodetic Vertical Datum, 1929).
۵	12/2/02	EASTERLY	i = 0.03					5
E	3/26/03	EASTERLY	i = 0.1	_				Excavation Limits, 3/8/91 — Excavation Limits, 3/29/96
F	9/10/03	EASTERLY	i = 0.02					Excuration Elimits, 5/25/55
G	3/3/04	VARIABLE	i = VARIES					
H	7/2/04	VARIABLE	i = VARIES					Estimated Groundwater Flow Direction
	3/15/05	VARIABLE	i = VARIES					
								Estimated Groundwater
								Variable Flow Direction
							<u> </u>	
							<u> </u>	
						·		

7	TRANS TECH CONSULT	MITS	SITE PLAN /	GROUND WA	ATER ELEVATI	ON CONTOUR MAP	FOR 3/15/05	
930	SHILOH RD., BLDG 44, SUITE			FERNDALE MOTORS 638 MAIN STREET				
	WINDSOR, CA 95492 7-575-8622 FAX: 707-837	7-7334	FERNDALE, CALIFORNIA					
DRAWN BY:	DWG NAME:	APPR. BY:	JOB NUMBER:	W.O. NUMBER:	REVISIONS:	DATE:	_	
JLP	3046.01 GWFP	BRH	3046.01	A-634		4/13/05	SHEET 2 OF 2	



			WELL INFOR	MATION						
Project Number/Na	Project Number/Name: 3046.01 Well Number: MW-1 Ferndale Motors									
Project Location:	638 Main Str Ferndale, Ca		Casing Diameter: 2"		Well Depth f Well Depth f	rom TOC (BP): rom TOC (AP):	5.00			
Date: March 15.	, 2005		Top of Screen:		Initial Well	Depth:				
Sampled by (print a	nd sign): Bria	n Hasik	Product Thickne	ss in inches: 📎	-0					
(B049		Water Level from	n TOC: 7, 3	6	Time: 2	00			
Notes: HC 0	DOL		Water Level pre-	-purge: 길	36	Time: 3	03			
			Well Type:	fonitor □ Ext	raction 🗆 Otl	ner:				
			Well EL (TOC):		v	Vell Mat: PVC				
WEATHER										
Wind: Yes/No Rain: Yes/No	Cloud Fog:	s: Yes No Yes No	Sun	Yes / No	Precipitation	in last 5 days:	es /No			
VOLUME OF WATER TO BE REMOVER BEFORE SAMPLING										
TD WL Dia. Inches Gallons in 3 well volumes (Approx. 0.6 gal/ft) gallons in one well volume total gallons purged										
		FIELD M	EASUREMENTS	DURING PUR	GING					
Stable Fiel	d Parameters	Required Prior	to Sample Collecti	on <10% pH a	nd EC change,	<0.2°C temp. cha	nge			
Time	Gallons	рН	TEMP °C	ORP	DO mg/L	EC mS/μS	Turbidity H/M/L			
3:04	1	6.39	10 15	748	-	420.9	1			
SLOT	1	624	15.2	-34		716.2	_			
3:05	5	6.59	15.2	7		7139	1_			
3,06	4	6,59	1503	-94		478-3	L			
3.06	- ウ	6,04	15.5	-70		7341	L			
going dy near 5g										
Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.										
Water Level Before Sampling: 4-65 Time: 4-20										
	Appearance of Sample:									
Bailer: Disposable			ersible (1-2 gpm)							
DECON. METHOD			free) Wash / Dou	ble Rinse						
NUMBER OF DRUI	MS GENERA	ΓΕD: Water:	Soil:	Ot Ot	her: 👌					

Project Location: 638 Main Street Casing Diameter: 2" Well Depth from TOC (BP): Poly Diameter: 2" Well Depth from TOC (AP): Poly Diameter: 2" Poly Dia	WELL INFORMATION										
Date: March 5 , 2005 Top of Screen: Initial Well Depth:	Project Number/Name: 3046.01 Ferndale Motors Well Number: MW-2										
Sampled by (print and sign): Brian Hasik Water Level from TOC: 8. Time: -5.5 Water Level pre-purge: 9. Itime: -5.5 Water Level pre-purge: 9. Well Mat: PVC Well Type: Monitor Extraction Other: Well EL (TOC): Well Mat: PVC WEATHER Wind: Yes /No Fog: Yes /No Fog: Yes /No Precipitation in last 5 days: Yes /No NOLUME OF WATER TO BE REMOVER BEFORE SAMPLING VOLUME OF WATER TO BE REMOVER BEFORE SAMPLING											
Water Level from TOC: 8 . / Time: / 555 Notes: Water Level pre-purge: 9 . / Time: 2 26 Water Level pre-purge: 9 . / Time: 2 26 Well Type: Imminior Extraction Other: Well EL (TOC): Well Mat: PVC WEATHER Wind: Yes / No Prog: Yes / No Precipitation in last 5 days: Yes / No Rain: Yes / No Prog: Yes / No Precipitation in last 5 days: Yes / No Rain: Yes / No Prog: Yes / No Precipitation in last 5 days: Yes / No WOLUME OF WATER TO BE REMOVER BEFORE SAMPLING (Date: March 5, 2005 Top of Screen: Initial Well Depth:										
Water Level pre-purge:	Sampled by (print and sign): Brian Hasik Product Thickness in inches:										
Well Type: ☐ Monitor ☐ Extraction ☐ Other: Well EL (TOC): Well Mat: PVC WEATHER Wind: Yes No Clouds: Yes No Fog: Yes No Precipitation in last 5 days: Yes/No Rain: Yes No Fog: Yes No Precipitation in last 5 days: Yes/No Precipitation in last 5 days: Yes/No Rain: Yes No Fog: Yes No Precipitation in last 5 days: Yes/No Precipitation in last 5 days: Yes/No Rain: Yes No Fog: Yes No Precipitation in last 5 days: Yes/No Precipitation in last 5 days: Yes/No Rain: Yes No Fog: Yes No Precipitation in last 5 days: Yes/No Rain: Yes No Precipitation in last 5 days: Yes/No Precipitation in last 5 days: Yes/No Rain: Yes No Precipitation in last 5 da	Water Level from TOC: 8.10 Time: 1-55										
Well EL (TOC): Well Mat: PVC WEATHER Wind: Yes No Precipitation in last 5 days: Yes/No Precipitation in last 5 days: Y	Notes: Water Level pre-purge: 8.10 Time: 2.26										
Wind: Yes No Clouds: Yes No Sun Yes No Precipitation in last 5 days: Yes No Rain: Yes No Fog: Yes No Sun Yes No Precipitation in last 5 days: Yes No Rain: Yes No Fog: Yes No Sun Yes No Precipitation in last 5 days: Yes No Rain: Yes No Fog: Yes No Precipitation in last 5 days: Yes No Rain: Yes No Fog: Yes No Precipitation in last 5 days: Yes No Rain: Yes No Precipitation in last 5 days: Yes No Rain: Yes No	Well Type: ☐ Monitor ☐ Extraction ☐ Other:										
Wind: Yes No Fog: Yes No Sun Yes No Precipitation in last 5 days: Yes No Rain: Yes No Fog: Yes No Sun Yes No Precipitation in last 5 days: Yes No Progression of Sun Yes No Fog: Yes No Fo	Well EL (TOC): Well Mat: PVC										
Volume of Water to be remover before sampling	WEATHER										
TD											
Time Gallons pH TEMP ORP DO BC Turbidity H/M/L 2:27	VOLUME OF WATER TO BE REMOVER BEFORE SAMPLING										
Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change Time Gallons pH TEMP ORP DO mg/L mS/μS Turbidity H/M/L 2:27	TD WL Dia. Inches										
Time Gallons pH TEMP ORP DO mg/L mS/μS Turbidity 2:27	FIELD MEASUREMENTS DURING PURGING										
	Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change										
2:27 2:08 3 6-65 14.4 207 376.3 2:29 4 5-65 14.6 214 376.3 27 208 376.3	°C mg/L mS/\muS H/M/L										
2:28 3 6-65 14.4 214 372.1 2 3:76.3 2 3:76.3 2 3:76.3 2 3:76.3 2 3:72.1 2 Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable. Water Level Before Sampling: 4 16 Appearance of Sample:	2:27 (6-68 14-7, 201 8 349.1 1										
Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable. Water Level Before Sampling: 9.16 Appearance of Sample:	2:27 2 6.65 14.4 207 355.1										
Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable. Water Level Before Sampling: Appearance of Sample:											
Water Level Before Sampling: 8.16 Appearance of Sample:											
Water Level Before Sampling: 8.16 Appearance of Sample:	0										
Water Level Before Sampling: 8.16 Appearance of Sample:											
Water Level Before Sampling: 8.16 Appearance of Sample:											
Appearance of Sample:	Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.										
	Water Level Before Sampling: 8.16 Time: 3:40										
Bailer: Disposable Pump: 12V Submersible (1-2 gpm)	Appearance of Sample:										
	Bailer: Disposable Pump: 12V Submersible (1-2 gpm)										
DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse	DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse										
NUMBER OF DRUMS GENERATED: Water; Z Soil: Other: D											

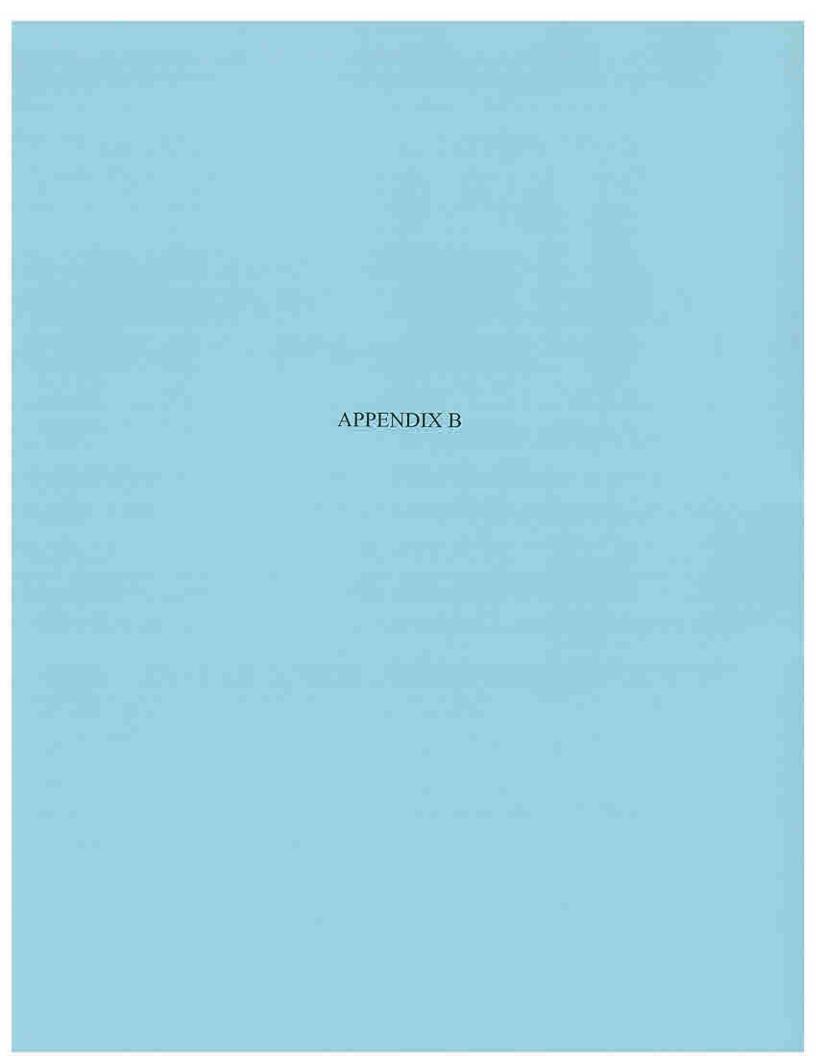
Project Number/Name: 3046.01 Ferradiale Motors Project Location: 638 Main Street Perradiale, California Diameter: 2" Well Depth from TOC (BP): 5 = 0000 Mel Depth from TOC (AP): 5 = 0000 Mel Mel Depth from TOC (AP): 5 = 0000 Mel Mel Depth from TOC (AP): 5 = 0000 Mel Mel Depth from TOC (AP): 5 = 0000 Mel Mel Depth from TOC (AP): 5 = 0000 Mel Mel Depth from TOC (AP): 5 = 0000 Mel Mel Depth from TOC (AP): 5 = 0000 Mel Mel Depth from TOC (AP): 5 = 0000 Mel Mel Depth from TOC (AP): 5 = 0000 Mel Mel Depth from TOC (AP): 5 = 0000 Mel Mel Depth from TOC (AP): 5 = 0000 Mel Mel Depth from TOC (AP): 5 = 0000 Mel Mel Depth from TOC (AP): 5 = 0000 Mel Mel Depth from ToC (AP): 5 = 0000 Mel Mel Depth from ToC (AP): 5 = 0000 Mel Mel Depth from ToC (AP): 5 = 0000 Mel Mel Mel Depth from ToC (AP): 5 = 0000 Mel Mel Mel Depth from ToC (AP): 5 = 0000 Mel				WELL INFORM	MATION						
Perudate California Diameters 2" Well Depth from TOC (AF):	Project Number/Na	ame:		tors		Well Number	: MW-3				
Sampled by (print and sign): Brian Hasik Water Level from TOC: 8 65 Time: 1.3 9 Notes: #C 0007 Water Level pre-purge: 1.64 Time: 2.54 Well Type: Monitor Extraction Other: Well Mat: PVC WEATHER Wind: Yes / No Fog: Yes /	Project Location:			1 -				5000			
Notes: HC ODOT Water Level from TOC: 8 65 Time: 1.89 Water Level pre-purge: 1.64 Time: 2.54 Well Type: 4 Monitor Extraction Other: Well Type: 4 Monitor Extraction Other: Well Mat: PVC WEATHER Wind: Yes No Clouds: Yes No Fog: Yes No Sun: Yes No Precipitation in last 5 days: Yes No TO VOLUME OF WATER TO BE REMOVER BEFORE SAMPLING (Date: March	, 2005		Top of Screen:		Initial Well	Depth:				
Water Level pre-purge: 1.64 Time: 2.54	Sampled by (print	and sign): Brian	1 Hasik	Product Thickness	ss in inches:	······································		-			
Well Type: □Monifor □Extraction □Other: Well EL (TOC): Well Mat: PVC Well Mat: PVC		Bet	>	Water Level from	n TOC:	3-65	Time: 13	9			
Well Type: □Monifor □Extraction □Other: Well EL (TOC): Well Mat: PVC Well Mat: PVC	Notes: HC 000	7		Water Level pre-	purge: 🔏	.64	Time: 2	54			
Wind: Yes No Fog: Yes No Sun: Yes No Precipitation in last 5 days: Yes No Precipitation in last 5 days: Yes No Sun: Yes No Precipitation in last 5 days: Yes No Sun: Yes No Precipitation in last 5 days: Yes No Sun: Yes No Precipitation in last 5 days: Yes No Sun: Yes No Precipitation in last 5 days: Yes No Sun: Yes No	1.000			Well Type: - ☑ M	onitor 🗆 Ext	raction 🗆 Oth	er:				
Wind: Yes No Fog: Yes No Sun: Yes No Precipitation in last 5 days: Yes No Rain: Yes No Fog: Yes No Sun: Yes No Precipitation in last 5 days: Yes No Precipitati				Well EL (TOC):		W	ell Mat: PVC				
VOLUME OF WATER TO BE REMOVER BEFORE SAMPLING											
TD WL Dia. Inches gallons in 3 well volumes (Approx. 0.6 gal/ft) FIELD MEASUREMENTS DURING PURGING Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change Time Gallons pH TEMP ORP DO mg/L mS / µS HI/M/L 2:56	/ /			Sun:	Yes / No	Precipitation	in last 5 days: Y	es No			
TD WL Dia. Inches 3.05 gallons in 3 well volumes (Approx. 0.6 gal/ft) total gallons purged FIELD MEASUREMENTS DURING PURGING Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change Time Gallons pH TEMP ORP DO EC mg/L mS/µS H/M/L 2.56											
Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change Time Gallons pH TEMP ORP DO mg/L mS/µS Turbidity H/M/L 2.56 6.23 5.8 -44 791.7 1.4 2.57 2.633 5.7 -44 784.4 1.4 2.58 3.634 6.8 -85 1005 1.5 2.58 3.5 6.35 15.9 -81 949.6 1.5 Within the prior to Sample Collection <10% pH and EC change, <0.2°C temp. change EC Turbidity H/M/L 4.71.7 1.4 4.72.7 1.4 4.73.7 1.4 4.74.7 1.4 4.75	TD WL Dia. Inches 3.05 gallons in 3 well volumes (Approx. 0.6 gal/ft) total gallons purged										
Time Gallons pH TEMP ORP DO mg/L mS/µS H/M/L 2.56											
	Stable Fie	eld Parameters	Required Prior	to Sample Collection	on <10% pH	and EC change,	<0.2°C temp. chai	ige			
Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable. Water Level Before Sampling: From the stable of the st	Time	Gallons	pН		ORP						
Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable. Water Level Before Sampling: # ## Time: ## ## ## ## ## ## ## ## ## ## ## ## ##	2:56	0	6.23	15.8	-44		791.7	1			
Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable. Water Level Before Sampling: # ## Time: ## ## ## ## ## ## ## ## ## ## ## ## ##	2:57	13	633	15.7	- 44	-	784.4	1			
Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable. Water Level Before Sampling: 4 95 Appearance of Sample: Bailer: Disposable Pump: 12V Submersible (1-2 gpm) DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse	2:58	>	6,91	15.8	-85		1005	5			
Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable. Water Level Before Sampling: Appearance of Sample: Bailer: Disposable Pump: 12V Submersible (1-2 gpm) DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse	258	3.5	6-35	15.9	-01		989.6				
Water Level Before Sampling: 4 95 Appearance of Sample: Bailer: Disposable Pump: 12V Submersible (1-2 gpm) DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse				In P	3.5						
Water Level Before Sampling: 4 95 Appearance of Sample: Bailer: Disposable Pump: 12V Submersible (1-2 gpm) DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse											
Water Level Before Sampling: 4 95 Appearance of Sample: Bailer: Disposable Pump: 12V Submersible (1-2 gpm) DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse		4									
Water Level Before Sampling: 4 95 Appearance of Sample: Bailer: Disposable Pump: 12V Submersible (1-2 gpm) DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse											
Appearance of Sample: Bailer: Disposable Pump: 12V Submersible (1-2 gpm) DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse	Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.										
Bailer: Disposable Pump: 12V Submersible (1-2 gpm) DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse	Water Level Before Sampling: 4:10										
DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse	Appearance of Sam	ple:									
	Bailer: Disposabl	e Pu	mp: 12V Subm	ersible (1-2 gpm)							
NUMBER OF DRUMS GENERATED: Water: 7 Soil: Other: Other	DECON. METHOI	D: TSP or Liqu	inox (phosphate	e free) Wash / Dou	ble Rinse	-					
	NUMBER OF DRU	JMS GENERA	ΓΕD: Water:	Soil:	Q 0	ther: 👌					

			WELL INFORM	MATION						
Project Number/Na	ame:	3046.01 Ferndale Mo	tors		Well Number	: MW-4				
Project Location:	638 Main Str Ferndale, Ca		Casing Diameter: 2"		Well Depth fi Well Depth fi	om TOC (BP):	NA.			
Date: March /5	, 2005		Top of Screen:		Initial Well	Depth:				
Sampled by (print		n Hasik	Product Thickne	ss in inches:						
275	BOH		Water Level from	n TOC: 🛭 🧎 🥜	12	Time: 1-57				
Notes:			Water Level pre-	purge: 7.	34	Time: 🗧	17			
			Well Type: 💆 M	Ionitor □ Ext	raction 🗆 Oth	er:				
			Well EL (TOC):		W	ell Mat: PVC				
WEATHER										
Wind: Yes/No Rain: Yes/No	Cloud Fog:	s: Yes/No Yes/No	Sun	Yes No	Precipitation	in last 5 days: Y	es No			
	VO	LUME OF WA	TER TO BE REM	OVER BEFOR	E SAMPLING					
3-44		Hopeway Armed	es (Approx. 0.6 gal/ EASUREMENTS			llons purged				
Stable Fie	eld Parameters	Required Prior	to Sample Collecti	on <10% pH :	and EC change,	<0.2°C temp. cha	nge			
Time	Gallons	рН	TEMP °C	ORP	DO mg/L	EC mS/μS	Turbidity H/M/L			
2:20	1	6,77	14.8	150		214.0	1			
2:21	2	6.75	14.6	15+		212.1	1			
2:21	3	6-78	14.6	135		206.9	2			
2:23	4 6	6.80	14.4	156		207.5	-			
- A & J	103	Lay (8	4,5	120		22.00	<u>-</u>			
		U		-		ž				
Minimum	of 5 gallons or (l).6 gal/ft. Of wa	l ter in casing - whic	l hever is greate	l r and field para	 meters must be st	able.			
Water Level Before	e Sampling:	7-90			Time: 3	30				
Appearance of Sam	ıple:									
Bailer: Disposabl	e Pu	mp: 12V Subm	ersible (1-2 gpm)							
DECON, METHOI	D: TSP or Liqu	inox (phosphate	e free) Wash / Dou	ble Rinse						
NUMBER OF DRU	JMS GENERA	TED: Water:	3 Soil:	: 🔌 o	ther:					

			WELL INFOR	MATION			
Project Number/Na	me:	3046.01 Ferndale Mo	tors		Well Numbe	er: MW-5	
Project Location:	638 Main Str Ferndale, Cal		Casing Diameter: 2"			from TOC (BP): from TOC (AP):	14.90
Date: March 5	, 2005		Top of Screen:		Initial Wel	l Depth:	•
Sampled by (print a	nd sign): Brian	Hasik	Product Thickne	ess in inches:	Ø		
	(1500)	<u> </u>	Water Level from	m TOC: 6.	74	Time: / 🖹	58
Notes:			Water Level pre	-purge: 🛵	15	Time: 🔌 🚶	43
			Well Type: 🖎	Ionitor □ Ex	traction 🗆 Ot	ther:	
			Well EL (TOC):			Well Mat: PVC	
			WEATH	ER			
Wind: Yes No Rain: Yes No	Clouds Fog:	: Yes/No Yes/No	Sun	Yes / No	Precipitation	n in last 5 days: Y	es / No
	vo	LUME OF WA	TER TO BE REM	OVER BEFOR	RE SAMPLING		
TD 3,91)2 X 0 via. Inches n 3 well volume	0.0408 = 50 es (Approx. 0.6 gal/	guilous i	n one well volu total g	me allons purged	
		FIELD M	EASUREMENTS	DURING PUR	GING		
Stable Fiel	d Parameters l	Required Prior	to Sample Collecti	on <10% pH	and EC change	, <0.2°C temp. char	nge
Time	Gallons	рН	TEMP °C	ORP	DO mg/L	EC mS/μS	Turbidity H/M/L
2.44	l/	6.39	65.5	229		221.9	1
2:45	2	9-30	15-2	234		222.6	Ī
2:45	3	6.30	15.2	235		222,2	ì
2-46	9	6.30	15-2	236		219.4	1
2:47	5	6-31	15.3	235		220-1	
Minimum of	f 5 gallons or 0	.6 gal/ft. Of wat	ter in casing - whic	hever is greate	r and field para	ameters must be sta	ıble.
Water Level Before	Sampling:	7.02			Time: 4	00	
Appearance of Samp	ole:						
Bailer: Disposable	Pun	np: 12V Subme	ersible (1-2 gpm)				
DECON. METHOD:	: TSP or Liqui	nox (phosphate	free) Wash / Dou	ble Rinse			
NUMBER OF DRUM	MS GENERAT	ED: Water:	3 Soil:	Ø 0	ther:		
					-		

-			WELL INFOR	RMATION							
Project Number/N	ame:	3046.01 Ferndale Mo	tors		Well Number	:: MW-6					
Project Location:	638 Main Str Ferndale, Ca		Casing Diameter: 2"		Well Depth fi	rom TOC (BP): 4 rom TOC (AP):	.90 NA				
Date: March 15	, 2005		Top of Screen:		Initial Well	Depth:					
Sampled by (print	and sign): Bria	n Hasik	Product Thickr	ess in inches:	Ř						
<u> </u>			Water Level from	om TOC: 6	36	Time: 150	7				
Notes:			Water Level pr	e-purge: 6	36	Time: 2:0	17				
			Well Type: 💆	Monitor □ Ex	traction 🗆 Oth		46.00				
			Well EL (TOC)):	V	Vell Mat: PVC					
WEATHER											
Wind: Yes No Rain: Yes No	Cloud Fog:	s: Yes No Yes No	Sun	Yes / No	Precipitation	in last 5 days: Y	es No				
VOLUME OF WATER TO BE REMOVER BEFORE SAMPLING											
() X ()2 X 0.0408 = (37gallons in one well volume											
4-10			es (Approx. 0.6 ga	l/ft) 5	total ga	llons purged					
		FIELD M	EASUREMENTS	S DURING PUR	GING						
Stable Fig	eld Parameters	Required Prior	to Sample Collec	tion <10% pH	and EC change,	<0.2°C temp. cha	nge				
Time	Gallons	рН	темр °С	ORP	DO mg/L	EC mS/μS	Turbidity H/M/L				
2-10	t.	6.40	14.4	176		233.7	2				
2:10	2	6-38	13.8	201	,	235.8	L				
2:11	3	6-37	13-8	210		232.5	L				
2-12	4	6.37	14.0	216		2339	4				
2:12	5	6.35	14.0	221		2 37.1	1				
				^ - 1			1				
					_						
	_										
Minimum	of 5 gallons or ().6 gal/ft. Of wa	ter in casing - wh	ichever is greate	er and field para	meters must be sta	ıble.				
Water Level Before	Sampling: 🏑	.52			Time: 3	20					
Appearance of Sam	ple:										
Bailer: Disposabl	e Pu	mp: 12V Subm	ersible (1-2 gpm)								
DECON. METHOL	D: TSP or Liqu	inox (phosphate	e free) Wash / Do	uble Rinse							
NUMBER OF DRU	JMS GENERA	ГЕD: Water:	3 Soi	ii: 👌 c)ther: 👌						
				-	- Y						

2			WELL INFOR	MATION							
Project Number/N	lame:	3046.01 Ferndale Mo	otors		Well Number	r: PZ-1					
Project Location:	638 Main Str Ferndale, Ca		Casing Diameter: 2"		Well Depth f Well Depth f	rom TOC (BP): /rom TOC (AP):	15.10 NA				
Date: March 15	, 2005		Top of Screen:		Initial Well	Depth:					
Sampled by (print	and sign): Bria	n Hasik	Product Thickne	ss in inches: &	7		·				
	(BOA))	Water Level from	n TOC: 8-8	33	Time: /	57				
Notes:			Water Level pre	purge: 8-8	2	Time: 📿	34				
			Well Type: 🖾 M	lonitor □ Ex	traction	ier:					
			Well EL (TOC):		V	Vell Mat: PVC					
WEATHER											
Wind: Yes/No Rain: Yes/No	Cloud Fog:	s: Yes/No/ Yes/No	Sun	Yes / No .	Precipitation	in last 5 days: Y	es No				
	vo	LUME OF WA	TER TO BE REM	OVER BEFOR	RE SAMPLING						
TD	<u> </u>	Dia. Inches	0.0408 = es (Approx. 0.6 gal/	1	n one well volun	ne llons purged					
		FIELD M	IEASUREMENTS	DURING PUR	GING						
Stable Fi	eld Parameters	Required Prior	to Sample Collecti	on <10% pH	and EC change,	<0.2°C temp. cha	nge				
Time	Gallons	pН	TEMP °C	ORP	DO mg/L	EC mS/μS	Turbidity H/M/L				
2:35	Ĺ	6.33	15.0	218		514.2	4				
7:36	2	6.70	14.6	216		514.7	1				
2:36	3	6,30	14.7	214		518.5	1				
2:37	A	6-27	14.9	212		519.6	7				
			00	0							
				<u></u>							
Minimum	of 5 gallons or (l).6 gal/ft. Of wa	l iter in casing - whic	hever is greate	r and field para	meters must be sta	able.				
Water Level Before	e Sampling: 🗸	1,98			Time: 3	50					
Appearance of Sam	ıple:	-41									
Bailer: Disposabl	le Pu	mp: 12V Subm	ersible (1-2 gpm)								
DECON. METHOI	D: TSP or Liqu	inox (phosphat	e free) Wash / Dou	ble Rinse							
NUMBER OF DRU	JMS GENERA	ΓED: Water:	3 Soil:	Q o	ther:						



Appendix B - Historical Groundwater Flow Direction and Gradient Data

Date	Monitoring Well	Top-of-Casing Elevations	Measured Water Level Depths	Calculated Water Level Elevations	Ground-Water Flow Direction/Gradient (i)	
	MW-1	47.69	7.45	40.24		
07/8/98	MW-2	49.16	8.46	40.70	North $i = 0.020$	
	MW-3	47.90	8.60	39.30	7 01020	
	MW-1	47.69	7.53	40.16		
12/30/99	MW-2	49.16	8.21	40.95	N 22°E	
	MW-3	47.90	8.57	39.33	i = 0.022	
	MW-1	47.69	7.10	40.59		
03/28/00	MW-2	49.16	8.00	41.16	N 2°W i = 0.027	
	MW-3	47.90	8.60	39.30	i = 0.027	
	MW-1	47.69	8.20	39.49		
09/07/00	MW-2	49.16	9.35	39.81	s 77°E	
	MW-3	47.90	8.16	39.74	i = 0.010	
	MW-1	47.69	7.26	40.43		
11/15/00	MW-2	49.16	7.66	41.50	N37°E	
	MW-3	47.90	8.21	39.69	i = 0.026	
	MW-1	47.69	7.00	40.69		
03/28/01	MW-2	49.16	7.80	41.36	North $i = 0.03$	
	MW-3	47.90	8.57	39.33	1 0.05	
	MW-1	47.69	8.10	39.59		
07/26/01	MW-2	49.16	9.04	40.12	N23°E i = 0.02	
	MW-3	47.90	8.82	39.08	1 0.02	
_	MW-1	47.69	8.38	39.31		
10/16/01	MW-2	49.16	9.46	39.70	$N20^{\circ}E$ i = 0.01	
	MW-3	47.90	8.87	39.03	1 – 0.01	

Appendix B Continued

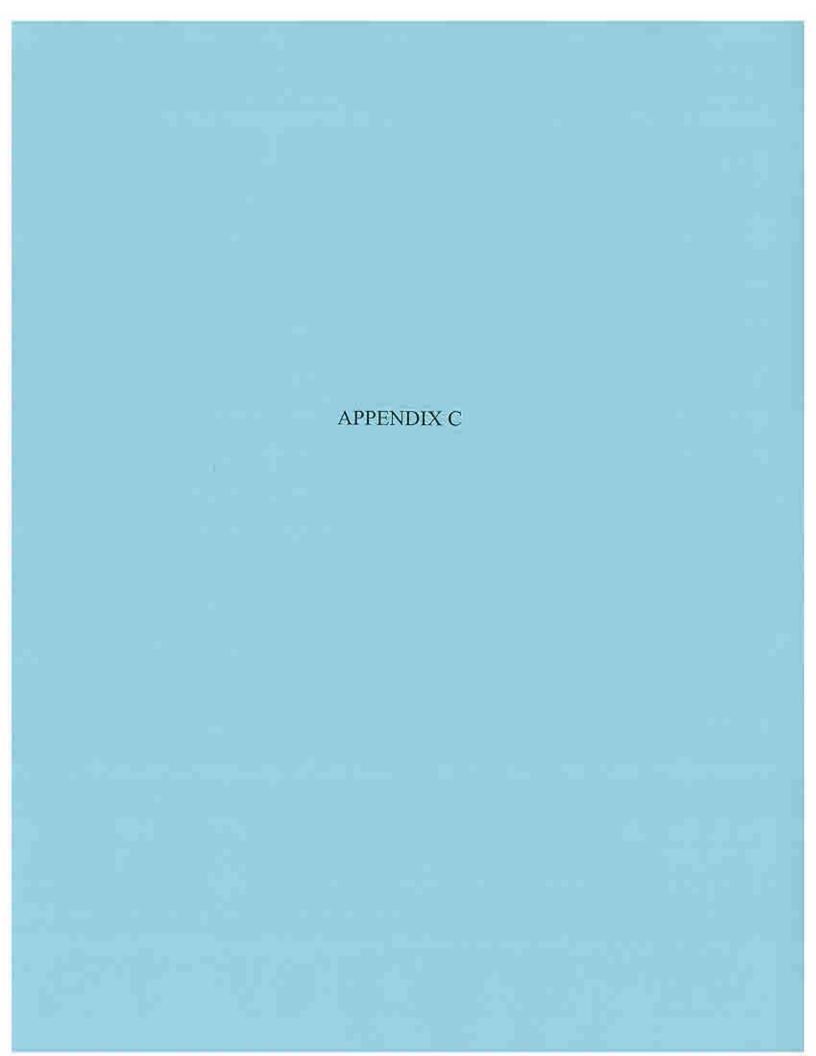
Date	Monitoring Well	Top-of-Casing Elevations	Measured Water Level Depths	Calculated Water Level Elevations	Ground-Water Flow Direction/Gradient (i)
	MW-1	47.69	6.87	40.82	
01/14/02	MW-2	49.16	7.16	42.00	N 20°E i = 0.03
	MW-3	47.90	8.39	39.51	
	MW-1	47.69	7.11	40.58	
04/22/02	MW-2	49.16	7.93	41.23	North i = 0.03
	MW-3	47.90	8.59	39.31	1 0.03
	MW-1	47.69	8.10	39.59	
07/23/02	MW-2	49.16	9.12	40.04	N 20°E i = 0.01
	MW-3	47.90	8.82	39.08	7 0.01
	MW-1	47.69	8.12	. 39.57	
	MW-2	49.16	8.95	40.21	
12/04/02	MW-3	47.90	8.86	39.04	Easterly
12/04/02	MW-4	46.79	7.92	38.87	i = 0.03
	MW-5	48.14	8.56	39.58	
	MW-6	48.97	9.04	39.93	

Appendix B - Continued

Sample Date	Monitoring Well ID	Top-of-Casing Elevations (feet - msl)	Measured Water Level Depths (feet)	Calculated Water Level Elevations (feet - msl)	Groundwater Flow Direction/Gradient (i)		
	MW-1	47.69	6.44	41.25			
	MW-2	49.16	6.25	42.91			
03/26/03	MW-3	47.90	8.19	39.71	Easterly		
03/26/03	MW-4	46.79	6.78	40.01	i = 0.10		
	MW-5	48.14	4.54	43.60			
	MW-6	48.97	3.81	45.16			
	MW-1	47.69	8.43	39.26			
	MW-2	49.16	49.16 9.26 39.90				
09/10/03	MW-3	47.90	8.83	39.07	Easterly		
09/10/03	MW-4	46.79	7.99	38.80	i = 0.02		
	MW-5	48.14	8.37	39.77			
	MW-6	48.97	8.91	40.06			
	MW-1	47.69	6.60	41.09			
	MW-2	49.16	6.74	42.42]		
3/03/04	MW-3	47.90	8.18	39.72	. Variable		
	MW-4	46.79	7.50	39.29	i = varies		
·	MW-5	48.14	5.45	42.69			
	MW-6	48.97	5.68	43.29			

Appendix B - Continued

Sample Date	Monitoring Well ID	Top-of-Casing Elevations (feet - msl)	Water Level Depth (feet)	Calculated Water Level Elevation (feet - msl)	Groundwater Flow Direction/Gradient (i)			
	MW-1	47.69	8.05	39.64				
	MW-2	49.16	9.05	40.11				
7/02/04	MW-3	47.90	8.80	39.11				
MW-4 MW-5	46.79	8.01	38.78	i = varies				
	48.14	8.11	40.03	1				
	MW-6	48.97	8.54	40.43	d			
	MW-1	47.69	7.36	40.33				
	MW-2	49.16	8.10	41.06				
03/15/05	MW-3	47.90	8.64	39.26]			
	MW-4	46.79	7.84	38.95	Variable i = varies			
MW-5	48.14	6.75	41.39	Yarros				
	MW-6	48.97	6.36	42.61				
	PZ-1	48.86	8.82	40.04				





Alpha Analytical Laboratories Inc.

208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

30 March 2005

Trans Tech Consultants

Attn: Bill Wiggins

930 Shiloh Rd., Bldg.44, Suite J

Windsor, CA 95492

RE: Ferndale Motors

Work Order: A503566

Enclosed are the results of analyses for samples received by the laboratory on 03/17/05 15:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sheri L. Speaks Project Manager

Shari Speake



e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Client Code

TRANSTEC

Page 1 of 15

Trans Tech Consultants

930 Shiloh Rd., Bldg.44, Suite J

Windsor, CA 95492

Attn: Bill Wiggins

Order Number

A503566

Receipt Date/Time

03/17/2005 15:10

Report Date: 03/30/05 11:47

Project No: 3046.01

Project ID: Ferndale Motors

Client PO/Reference

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	A503566-01	Water	03/15/05 16:20	03/17/05 15:10
MW-2	A503566-02	Water	03/15/05 15:40	03/17/05 15:10
MW-3	A503566-03	Water	03/15/05 16:10	03/17/05 15:10
MW-4	A503566-04	Water	03/15/05 15:30	03/17/05 15:10
MW-5	A503566-05	Water	03/15/05 16:00	03/17/05 15:10
MW-6	A503566-06	Water	03/15/05 15:20	03/17/05 15:10
PZ-1	A503566-07	Water	03/15/05 15:50	03/17/05 15:10

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Speake

Sheri L. Speaks Project Manager

3/30/2005



e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Page 2 of 15

Trans Tech Consultants

930 Shiloh Rd., Bldg.44, Suite J

Windsor, CA 95492

Attn: Bill Wiggins

Order Number A503566

Receipt Date/Time

03/17/2005 15:10

Report Date: 03/30/05 11:47 Project No: 3046.01

Project ID: Ferndale Motors

Client PO/Reference

Alpha Analytical Laboratories, Inc.

Client Code

TRANSTEC

			•		,			
	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW-1 (A503566-01)			Sample Tyr	e: Water		Sampled: 03/15/05 16:20		
TPH by EPA/LUFT GC/GCMS Metho	ds					•		
TPH as Diesel	8015DRO	AC52517	03/25/05	03/25/05	1	780 ug/l	50	D-08
TPH as Gasoline	8260GRO	AC52801	03/25/05	03/26/05	50	4100 "	2500	
Surrogate: 1,4-Bromofluorobenzene	8015DRO	AC52517	03/25/05	03/25/05		80.0 % 20	-152	
Surrogate: Toluene-d8	8260GRO	AC52801	03/25/05	03/26/05		97.6 % 70	-129	
Volatile Organic Compounds by EPA	Method 8260B							R-00
Benzene	EPA 8260B	AC52516	03/22/05	03/24/05	5	43 ug/l	1.5	
Toluene	h	17	н	11	11	11 "	1.5	
Ethylbenzene	u	If	н	n	11	15 "	2.5	
Xylenes (total)	U	н	H	**	ii	7.1 "	2.5	
Methyl tert-butyl ether	и	0	11	r	11	ND "	2.5	
Di-isopropyl ether	u	u	n,		11	ND "	2.5	
Ethyl tert-butyl ether	ti	n	n	H	Ħ	ND "	2.5	
Tert-amyl methyl ether	n	11	U	a)	75	ND "	2.5	
Tert-butyl alcohol	17	н	11	U	Ħ	ND "	50	
1,2-Dichloroethane	14	п	п	a	H	ND "	2.5	
Chlorobenzene	tr .	11	**	11	H	ND "	2.5	
1,3-Dichlorobenzene	"	R	71	71	11	ND "	2.5	
1,4-Dichlorobenzene	'n	17	17	79	D	ND "	2.5	
1,2-Dichlorobenzene	ļı	ii	n	10	íi.	ND"	2.5	
1,2-Dibromoethane (EDB)	ď	a	p	D.	41	ND "	2.5	
Surrogate: Bromofluorobenzene	"	17	11	es		123 % 45	5-147	
Surrogate: Dibromofluoromethane	"	н	"	11		112 % 85	5-12 9	
Surrogate: Toluene-d8	76	ď	71	78		126 % 74	1-137	
AW-2 (A503566-02)			Sample Ty	pe: Water		Sampled: 03/15/05 15:40		
TPH by EPA/LUFT GC/GCMS Metho	ds							
TPH as Diesel	8015DRO	AC52517	03/25/05	03/25/05	1	ND ug/l	50	
TPH as Gasoline	8260GRO	AC52406	03/22/05	03/24/05	н	ND "	50	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

8015DRO

8260GRO

AC52517

AC52406 03/22/05

03/25/05

03/25/05

03/24/05

Surrogate: 1,4-Bromofluorobenzene

Surrogate: Toluene-d8

72.2 %

113%

Speake

20-152

70-129



e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Page 3 of 15

Trans Tech Consultants

930 Shiloh Rd., Bldg.44, Suite J

Windsor, CA 95492 Attn: Bill Wiggins Report Date: 03/30/05 11:47 Project No: 3046.01

Project ID: Ferndale Motors

Order Number A503566 Receipt Date/Time

03/17/2005 15:10

Client Code TRANSTEC Client PO/Reference

						***************************************	.,	
	METHOD	-	•	Laborato ANALYZED			PO	L NOTE
MW-2 (A503566-02)			Sample Ty			Sampled: 03/15/05 15:4		
Volatile Organic Compounds by EPA	Method 8260B					-		R-00
Benzene	EPA 8260B	AC52516	03/22/05	03/24/05	.1	ND ug/l	0.30)
Toluene	**	71	Iŧ	ш	ji	ND "	0.30	
Ethylbenzene	u	н	R	11	H	ND "	0.50	
Xylenes (total)	u	и	n	18	11	ND "	0.50)
Methyl tert-butyl ether	ij	į,	74	rŧ	a ·	0.71 "	0.50	
Di-isopropyl ether	ņ	IŶ.	II.	19	ø	ND "	0.50	
Ethyl tert-butyl ether	ŧı	17	11	12	11	ND "	0.50)
Tert-arnyl methyl ether	N	1)	n	17	24	ND "	0.50	
Tert-butyl alcohol	11	II	**	29	rt	ND "	10)
1,2-Dichloroethane	11	u	11	и		ND "	0.56	0
Chlorobenzene	It	ĮĮ.	R	u	H	ND "	0.56	0
1,3-Dichlorobenzene	P	tl	19	o	11	ND "	0.50	o
1,4-Dichlorobenzene	PF	ŧı	29	11	n	ND "	0.56	D
1,2-Dichlorobenzene	ρ	71	17	я	n	ND "	0.59	0
1,2-Dibromoethane (EDB)	н	P	Ü	н	11	ND "	0.5	0
Surrogate: Bromofluorobenzene	"	n	,,	"		127 %	45-147	
Surrogate: Dibromofluoromethane	"	,,	17	"			8.5-129	S-G
Surrogate: Toluene-d8	"	″	"	**		113 %	74-137	
MW-3 (A503566-03)			Sample Ty	pe: Water		Sampled: 03/15/05 16:	10	
TPH by EPA/LUFT GC/GCMS Metho	ods							
TPH as Diesel	8015DRO	AC52517	03/25/05	03/25/05	1	46 <mark>0</mark> սց/l	5	0 D-0
TPH as Gasoline	8260GRO	AC52406	03/22/05	03/24/05	20	2200 "	100	0
Surrogate: 1,4-Bromofluorobenzene	8015DRO	AC52517	03/25/05	03/25/05		76.7 %	20-152	
Surrogate: Toluene-d8	8260GRO	AC52406	03/22/05	03/24/05		122 %	70-129	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Shari



e-mail: clientservices@alpha-labs.com • Phone (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Page 4 of 15

Trans Tech Consultants

930 Shiloh Rd., Bldg.44, Suite J

Windsor, CA 95492

Report Date: 03/30/05 11:47

Project No: 3046.01

Project ID: Ferndale Motors

Attn: Bill Wiggins

Client Code

Client PO/Reference

Order Number A503566

Receipt Date/Time

03/17/2005 15:10

TRANSTEC

		Alpha A	nalytical	Laborato	ries, Inc.			
	METHOD	ВАТСН	PREPARED	ANALYZED	DILUTION	I RESULT	PQL	NOTE
MW-3 (A503566-03)			Sample Ty	pe: Water		Sampled: 03/15/05 16:16)	•
Volatile Organic Compounds by EPA	Method 8260B		, ,	•		•		R-04
Benzene	EPA 8260B	AC52516	03/22/05	03/24/05	20	270 ng/l	6.0	
Toluene	н	9	я	U	u u	ND "	6.0	
Ethylbenzene	n	11	N	n	17	ND "	10	
Xylenes (total)	11	Ħ	я	is	IJ	ND *	10	
Methyl tert-butyl ether	u	N	н	**	0 ·	ND "	10	
Di-isopropyl ether	11	п	H	**	şı	ND "	10	
Ethyl tert-butyl ether	п	11	11	н	9	ND "	10	
Tert-amyl methyl ether	п	17	11	×	*1	ND "	10	
Tert-butyl alcohol	n	**	1)		η	ND "	200	
1,2-Dichloroethane	77	0	u	ii.	н	ND "	10	
Chlorobenzene	н	n	IJ	e	h	ND "	10	
1,3-Dichlorobenzene	n	n	'n	u	11	ND "	10	
1,4-Dichlorobenzene	57	u	N	11	If	ND "	10	
1,2-Dichlorobenzene	n	o	и	и	17	ND "	10	
1,2-Dibromoethane (EDB)	17	н	N	71	υ	ND "	10	
Surrogate: Bromofluorobenzene	,,	11	,,	tr		124% 4	5-147	
Surrogate: Dibromofluoromethane	37	n	"	"		124 % 8	5-129	
Surrogate: Toluene-d8	17	n	"	"		122 % 7	4-137	
MW-4 (A503566-04)			Sample Ty	pe: Water		Sampled: 03/15/05 15:36)	
TPH by EPA/LUFT GC/GCMS Metho	ds							
TPH as Diesel	8015DRO	AC52517	03/25/05	03/26/05	1	ND ug/i	50	
TPH as Gasoline	8260GRO	AC52406	03/22/05	03/24/05		ND "	50	
Surrogate: 1,4-Bromofluorobenzene	8015DRO	AC52517	03/25/05	03/26/05		76.3 % 2	0-152	
Surrogate: Toluene-d8	8260GRO	AC52406	03/22/05	03/24/05		121 %	0-129	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Page 5 of 15

Trans Tech Consultants

930 Shiloh Rd., Bldg.44, Suite J

Windsor, CA 95492 Attn: Bill Wiggins

Report Date: 03/30/05 11:47 Project No: 3046.01

Project ID: Ferndale Motors

Order Number A503566

Receipt Date/Time

03/17/2005 15:10

Client Code TRANSTEC Client PO/Reference

11303300	03/1//2005 15:10		1 K	ANSTEC				
		Alpha A	nalytical	Laborato	ries, Inc.			
	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQI	NOTE
MW-4 (A503566-04)			Sample Ty	pe: Water	S	ampled: 03/15/05 15	3:30	
Volatile Organic Compounds by El	PA Method 8260B			•		•		
Benzene	EPA 8260B	AC52516	03/22/05	03/24/05	1	ND ug/l	0.30	
Toluene	*1	ij	II .	n	п	ND"	0.30	
Ethylbenzene	ห	la.	μ	н	મ	ND "	0.50	
Xylenes (total)	**	n	й	n	21	ND "	0.50	
Methyl tert-butyl ether	11	u	#1	u	77	ND "	0.50	
Di-isopropyl ether	u	11	Ħ	II.	н	ND "	0.50	
Ethyl tert-butyl ether	ø	N	11:	41	19	ND "	0.50	
Tert-amyl methyl ether	и	Ħ	19	11	11	ND "	0.50	
Tert-butyl alcohol	U	j t	11	н	n	ND "	10	
1,2-Dichloroethane	п	14	i)	Ħ	Ħ	ND "	0.50	
Chlorobenzene	11	н	ŧı	Ħ	N	ND "	0.50	+
1,3-Dichlorobenzene	Ħ	II	(1	,,	n	ND "	0.50)
1,4-Dichlorobenzene	н	a	ห	11	rt	ND "	0.50)
1,2-Dichlorobenzene	79	a	†1	U	I7	ND "	0.50)
1,2-Dibromoethane (EDB)	n	71	н	u	n	ND"	0.50)
Surrogate: Bromofluorobenzene	<i>n</i>	"	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			129 %	45-147	
Surrogate: Dibromofluoromethan	e "	**	θ	n		182 %	85-129	S-GC
Surrogate: Toluene-d8	et	"	97	н		121 %	74-137	
MW-5 (A503566-05)			Sample Ty	pe: Water	S	Sampled: 03/15/05 16	5:00	
TPH by EPA/LUFT GC/GCMS M	ethods			•		•		
TPH as Diesel	8015DRO	AC52517	03/25/05	03/26/05	1	ND ug/l	50)
TPH as Gasoline	8260GRO	AC52406	03/22/05	03/24/05	n	ND "	50	
Surrogate: 1,4-Bromofluorobenze	ne 8015DRO	AC52517	03/25/05	03/26/05		79.8 %	20-152	
Surrogate: Toluene-d8	8260GRO	AC52406	03/22/05	0 <mark>3/24/05</mark>		117%	70-129	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Page 6 of 15

Trans Tech Consultants

930 Shiloh Rd., Bldg.44, Suite J

Windsor, CA 95492

Attn: Bill Wiggins

Order Number

A503566

Receipt Date/Time

03/17/2005 15:10

Client Code TRANSTEC Report Date: 03/30/05 11:47 Project No: 3046.01

Project ID: Ferndale Motors

Client PO/Reference

		Alpha A	nalytical	Laborato	ries, Inc.				
	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	I RESULT	P	QL	NOTE
MW-5 (A503566-05)			Sample Ty	pe: Water	, ,	Sampled: 03/15/05 16	:00		
Volatile Organic Compounds by EPA	Method 8260B					•			
Benzene	EPA 8260B	AC52516	03/22/05	03/24/05	1	ND ug/l	0	.30	
Toluene	U	71	n	P1	70	ND "	0	30	
Ethylbenzene	ıı	75	11	It	B	ND "	0	.50	
Xylenes (total)	a	p	ŧ	17	n	ND "	0	.50	
Methyl tert-butyl ether	ч	11	*1	u	н :	ND "	0	50	
Di-isopropyl ether	n	11	*	n	11	ND "	0	.50	
Ethyl tert-butyl ether	78	n	16	11	31	ND "	0	.50	
Tert-amyl methyl ether	78	D	24	†ì	RI	ND "	0	.50	
Tert-butyl alcohol	R	ø	II .	11	Ħ	ND "		10	
1,2-Dichloroethane	n	11	н	н	a	ND "	0	.50	
Chlorobenzene	19	и	U	19	P	ND "	0	.50	
1,3-Dichlorobenzene	II .	н	11	D	19	ND "	0	.50	
1,4-Dichlorobenzene	1)	ń	н	U	t†	ND "	0	.50	
1,2-Dichlorobenzene	u	IT	н	u	n .	ND "	0	.50	
1,2-Dibromoethane (EDB)	ŧ	17	71	a	41	ND "	0	.50	
Surrogate: Bromofluorobenzene	"	и	"	,,		123 %	45-147		
Surrogate: Dibromofluoromethane	11	11	"	н		170 %	85-129		S-G(
Surrogate: Toluene-d8	n	11	rr	n		117%	74-137		
/W-6 (A503566-06)			Sample Ty	pe: Water		Sampled: 03/15/05 15	5:20		
TPH by EPA/LUFT GC/GCMS Metho	ods								
TPH as Diesel	8015DRO	AC52822	03/28/05	03/28/05	1	ND ug/l		50	
TPH as Gasoline	8260GRO	AC52406	03/22/05	03/24/05	11	ND"		50	
Surrogate: 1.4-Bromofluorobenzene	8015DRO	AC52822	03/28/05	03/28/05		83.8 %	20-152		
Surrogate: Toluene-d8	8260GRO	AC52406	03/22/05	03/24/05		126 %	70-129		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Page 7 of 15

Trans Tech Consultants

930 Shiloh Rd., Bldg.44, Suite J

Windsor, CA 95492 Attn: Bill Wiggins

Report Date: 03/30/05 11:47 Project No: 3046.01

Project ID: Ferndale Motors

Order Number A503566

Receipt Date/Time

03/17/2005 15:10

Client Code TRANSTEC Client PO/Reference

	15/11/2005 IJ.10			ALIO LLC				
		-	•	Laborato	ries, Inc.			
	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	N RESULT	PQL	NOTE
MW-6 (A503566-06)			Sample Ty	pe: Water		Sampled: 03/15/05 15:20		
Volatile Organic Compounds by EP.	A Method 8260B			-		•		
Benzene	EPA 8260B	AC52516	03/22/05	03/24/05	1	ND ug/l	0.30	
Toluene	U	11	**	R	11	ND "	0.30	
Ethylbenzene	U	94	n	R	n	ND "	0.50	
Xylenes (total)	69	4	н	n	25	ND "	0.50	
Methyl tert-butyl ether	Ħ	**	н		и :	ND "	0.50	
Di-isopropyl ether	71	n	н	U	Ħ	ND "	0.50	
Ethyl tert-butyl ether	Ħ	n	P	11	16	ND"	0.50	
Tert-amyl methyl ether	1 f	75	19	Ħ	*	ND "	0.50	
Tert-butyl alcohol	n	17	11	**	17	ND "	10	
1,2-Dichloroethane	1+	ıı.	n	н	0	ND *	0.50	
Chlorobenzene	n	u	13	n	n	ND "	0.50	
1,3-Dichlorobenzene	U	IJ	Ħ	I†	u	ND "	0.50	
1,4-Dichlorobenzene	n	u	71	· ·	*1	ND "	0.50	
1,2-Dichlorobenzene	ų	11	74	U	*1	ND "	0.50	
1,2-Dibromoethane (EDB)	vi	†1	μ	σ	11	ND "	0.50	
Surrogate: Bromofluorobenzene		"	<i>n</i>	,,		117% 45-1	47	
Surrogate: Dibromofluoromethane	Ħ	"	78	"		168 % 85-1.		S-GC
Surrogate: Toluene-d8	н	"	"	n		126 % 74-1	37	
PZ-1 (A503566-07)			Sample Ty	pe: Water		Sampled: 03/15/05 15:50		
TPH by EPA/LUFT GC/GCMS Me	thods							
TPH as Diesel	8015DRO	AC52822	03/28/05	03/28/05	i	ND ug/l	- 50	
TPH as Gasoline	8260GRO	AC52406	03/22/05	03/24/05	н	ND "	50	
Surrogate: 1,4-Bromofluorobenzen	e 8015DRO	AC52822	03/28/05	03/28/05		83.9 % 20-1	52	****
Surrogate: Toluene-d8	8260GRO	AC52406	03/22/05	03/24/05		115 % 70-1	29	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha Analytical Laboratories Inc.

208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Page 8 of 15

Trans Tech Consultants

930 Shiloh Rd., Bldg.44, Suite J

Windsor, CA 95492

Attn: Bill Wiggins

Order Number

A503566

Receipt Date/Time 03/17/2005 15:10

Client Code TRANSTEC Report Date: 03/30/05 11:47 Project No: 3046.01

Project ID: Ferndale Motors

Client PO/Reference

Alnha	Analytical	Laboratories.	Inc.

		a kipiim a	zmary cica		i ica, ilici			
	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
PZ-1 (A503566-07)			Sample Ty	pe: Water	Sam	pled: 03/15/05 1	5:50	
Volatile Organic Compounds by EPA	Method 8260B					-		
Benzene	EPA 8260B	AC52516	03/22/05	03/24/05	1	ND ug/l	0.30	
Toluene	н	ti ti	U	U	*	ND"	0.30	
Ethylbenzene	78	u	IJ	39	14	ND "	0.50	
Xylenes (total)	19	11	79	II.	n	ND "	0.50	
Methyl tert-butyl ether	17	*1	11	II .	ю :	ND "	0.50	
Di-isopropyl ether	"	н	n	11	O	ND "	0.50	
Ethyl tert-butyl ether	v	11	H	п	u	ND "	0.50	
Tert-amyl methyl ether	n	н	n	n	61	ND"	0.50	
Tert-butyl alcohol	ч	H	10	н	†1	ND "	10	
1,2-Dichloroethane	"	"	11	n	н	ND"	0.50	
Chlorobenzene	ti	ø	ji .	Ð	H	ND "	0.50	
1,3-Dichlorobenzene	*1	n	II .	0	H	ND "	0.50	
1,4-Dichlorobenzene	n	11	12	i 1	H	ND "	0.50	
1,2-Dichlorobenzene	14	н	74	11	11	ND "	0.50	
1,2-Dibromoethane (EDB)	r	41	11	9	11	ND "	0.50	
Surrogate: Bromofluorobenzene	"	11	"	""		120 %	45-147	
Surrogate: Dibromofluoromethane	n	n	"	"		183 %	85-129	S-GC
Surrogate: Toluene-d8	n	#	et e	#		115 %	74-137	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Shari



e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Page 9 of 15

Trans Tech Consultants

930 Shiloh Rd., Bldg.44, Suite J

Windsor, CA 95492 Attn: Bill Wiggins

Project No: 3046.01

Report Date: 03/30/05 11:47

Project ID: Ferndale Motors

Order Number

Receipt Date/Time

Client Code

Client PO/Reference

A503566

03/17/2005 15:10

TRANSTEC

TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC52406 - EPA 5030 Water GC	CMS									
Blank (AC52406-BLK1)				Prepared:	03/22/05	Analyzec	l: 03/23/05			
TPH as Gasoline	ND	50	ug/l					1.4.4.4		
Surrogate: Toluene-d8	29.9			25.0		120	70-129			
LCS (AC52406-BS1)				Prepared:	03/22/05	Analyzed	l: 03/24/05			
TPH as Gasoline	171	50	ug/l	200		85.5	65-137			
Surrogate: Toluene-d8	30.6		ff.	25.0		122	70-129			
LCS Dup (AC52406-BSD1)				Prepared:	03/22/05	Analyzeo	1: 03/24/05			
TPH as Gasoline	173	50	ug/l	200		86.5	65-137	1.16	20	
Surrogate: Toluene-d8	31.4		"	25.0		126	70-129			
Matrix Spike (AC52406-MS1)	Sou	rce: A503	548-02	Prepared:	03/22/05	Analyzed	1: 03/24/05			
TPH as Gasoline	201	50	ug/l	200	ND	90.5	65-137			0011E.TE
Surrogate: Toluene-d8	29.0		n	25.0		116	70-129			
Batch AC52517 - EPA 3510B Water										
Blank (AC52517-BLK1)				Prepared	& Analyz	ed: 03/25/	05			
TPH as Diesel	ND	50	ug/l							
Surrogate: 1,4-Bromofluorobenzene	418		"	579		72.2	20-152			
LCS (AC52517-BS1)				Prepared	& Analyz	ed: 03/25/	05			
TPH as Diesel	1920	50	ug/l	1960		98.0	52-136			
Surrogate: 1,4-Bromofluorobenzene	428		п	579		73.9	20-152			
LCS Dup (AC52517-BSD1)				Prepared	& Analyz	ed: 03/25/	05			
TPH as Diesel	2010	50	ug/l	1960		103	52-136	4.58	25	To an a market or

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Client PO/Reference

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Page 10 of 15

Trans Tech Consultants

930 Shiloh Rd., Bldg.44, Suite J

Windsor, CA 95492

Order Number

A503566

Attn: Bill Wiggins

Receipt Date/Time

03/17/2005 15:10

Client Code

TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Report Date: 03/30/05 11:47 Project No: 3046.01

Project ID: Ferndale Motors

TRANSTEC

Analyte(s)	Result	PQL	Units	Spike Lev <mark>e</mark> l	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC52517 - EPA 3510B Water										
LCS Dup (AC52517-BSD1)				Prepared	& Analyz	ed: 03/25/	05			anilila - anima
Surrogate: 1,4-Bromofluorobenzene	447		п	579		77.2	20-152			
Batch AC52801 - EPA 5030 Water G	CMS									
Blank (AC52801-BLK1)				Prepared	& Analyze	ed: 03/25/	05			
TPH as Gasoline	ND	50	ug/l							
Surrogate: Toluene-d8	31.1		'n	25.0		124	70-129			
LCS (AC52801-BS1)				Prepared	& Analyz	ed: 03/25/	05			
TPH as Gasoline	190	50	ug/1	200		95.0	65-137			
Surrogate: Toluene-d8	24.8		n	25.0		99.2	70-129			
LCS Dup (AC52801-BSD1)				Prepared	& Analyz	ed: 03/25/	05			
TPH as Gasoline	176	50	ug/l	200	e en en e and Europe	88.0	65-137	7.65	20	
Surrogate: Toluene-d8	24.8		н	25.0		99.2	70-129			
Matrix Spike (AC52801-MS1)	Sou	rce: A503	567-01	Prepared	& Analyz	ed: 03/25/	05 =	DVV.LV2	m	
TPH as Gasoline	293	50	ug/l	200	ND	138	65-137			QM-05
Surrogate: Toluene-d8	24.7		<i>n</i>	25.0		98.8	70-129			
Batch AC52822 - EPA 3510B Water										
Blank (AC52822-BLK1)				Prepared	& Analyz	ed: 03/28/	05			
TPH as Diesel	ND	50	ug/l				00=2:n=2:=			***===
Surrogate: 1.4-Bromofluorobenzene	444		н	579		76.7	20-152			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Client PO/Reference

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Page 11 of 15

Trans Tech Consultants

930 Shiloh Rd., Bldg.44, Suite J

Windsor, CA 95492 Attn: Bill Wiggins

Order Number

A503566

Receipt Date/Time

03/17/2005 15:10

Report Date: 03/30/05 11:47

Project No: 3046.01

Project ID: Ferndale Motors

Client Code TRANSTEC

TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC52822 - EPA 3510B Water										
LCS (AC52822-BS1)				Prepared	& Analyze	ed: 03 <mark>/2</mark> 8/0)5			
TPH as Diesel	2150	50	ug/l	1960		110	52-136			
Surrogate: 1,4-Bromofluorobenzene	520		11	579		89.8	20-152			
LCS Dup (AC52822-BSD1)				Prepared	& Analyze	ed: 03/28/0)5			
TPH as Diesel	2120	50	ug/l	1960		108	52-136	1.41	25	
Surrogate: 1.4-Bromofluorobenzene	496		9	579		85.7	20-152			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Speake

Sheri L. Speaks Project Manager

3/30/2005



e-mail: clientservices@alpha-labs.com • Phone (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Page 12 of 15

Trans Tech Consultants

930 Shiloh Rd., Bldg.44, Suite J

Windsor, CA 95492

Attn: Bill Wiggins

Order Number

A503566

Receipt Date/Time

03/17/2005 15:10

Client Code TRANSTEC Project No: 3046.01

Report Date: 03/30/05 11:47

Project ID: Ferndale Motors

Client PO/Reference

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC52516 - EPA 5030 Wate	r GCMS									
Blank (AC52516-BLK1)				Prepared:	03/22/05	Analyzed	: 03/23/05			
Benzene	ND	0.30	ug/l							
Toluene	ND	0.30	a							
Ethylbenzene	ND	0.50	Ħ							
Xylenes (total)	ND	0.50	и							
Methyl tert-butyl ether	ND	0.50	ff							
Di-isopropyl ether	ND	0.50	42							
Ethyl tert-butyl ether	ND	0.50	17							
Tert-amyl methyl ether	ND	0.50	17							
Tert-butyl alcohol	ND	10	19							
1,2-Dichloroethane	ND	0.50	11							
Chlorobenzene	ND	0.50	{I							
1,3-Dichlorobenzene	ND	0.50	п							
1,4-Dichlorobenzene	ND	0.50	n							
1,2-Dichlorobenzene	ND	0.50	71							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Surrogate: Bromofluorobenzene	31.8	· · · · · · · · · · · · · · · · · · ·	n	25.0		127	45-147			
Surrogate: Dibromofluoromethane	35.3		p	25.0		141	85-129			S-GC
Surrogate: Toluene-d8	29 .9		tr	25.0		120	74-137			
LCS (AC52516-BS1)				Prepared	: 03/22/05	Analyzec	l: 03/ <mark>23</mark> /05			
Benzene	5.24	0.30	ug/l	5.00		105	79-116		·	
Toluene	5.85	0.30	0	5.00		117	83-120			
Ethylbenzene	4.37	0.50	4	5.00		87.4	81-119			
Xylenes (total)	12.7	0.50	a a	15.0		84.7	79-121			
Methyl tert-butyl ether	5.38	0.50	A	5.00		108	73-127			
Di-isopropyl ether	6.04	0.50	n	5.07		119	69-96			QL-03
Ethyl tert-butyl ether	6.25	0.50	v	5.08		123	76-117			QL-03

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



e-mail: clientservices@alpha-labs.com • Phone (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Page 13 of 15

Trans Tech Consultants

930 Shiloh Rd., Bldg.44, Suite J

Windsor, CA 95492

Attn: Bill Wiggins

Order Number

A503566

Receipt Date/Time

03/17/2005 15:10

Report Date: 03/30/05 11:47

Project No: 3046.01

Project ID: Ferndale Motors

Client PO/Reference

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Client Code

TRANSTEC

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC52516 - EPA 5030 Wate	r GCMS								,	
LCS (AC52516-BS1)				Prepared:	: 03/22/05	Analyzed	l: 03/23/05			
Tert-amyl methyl ether	6.36	0.50	н	5.16		123	80-122			QL-03
Tert-butyl alcohoi	79.7	10	н	98.2		81.2	53-132			
1,2-Dichloroethane	5.74	0.50	H	5.00		115	78-115			
Chlorobenzene	4.94	0.50	п	5.00		98.8	82-112			
1,3-Dichlorobenzene	4.39	0.50	p	5.00		87.8	82-117			
1,4-Dichlorobenzene	5.02	0.50	0	5.00		100	85-113			
1,2-Dichlorobenzene	4.92	0.50	0	5.00		98.4	83-113			
1,2-Dibromoethane (EDB)	5.02	0.50	ä	5.00		100	84-117			
Surrogate: Bromofluorobenzene	33.2		н	25.0		133	45-147			
Surrogate: Dibromofluoromethane	32.6		79	25.0		130	85-129			S-GC
Surrogate! Toluene-d8	32.4		и	25.0		130	74-137			
LCS Dup (AC52516-BSD1)				Prepared	: 03/22/05	Analyzed	1: 03/23/05			
Benzene	5.47	0.30	ug/l	5.00		109	79-116	4.30	25	
Toluene	5.70	0.30	Ħ	5.00		114	83-120	2.60	25	
Ethylbenzene	4.06	0.50	Ħ	5.00		81.2	81-119	7.35	25	
Xylenes (total)	11.3	0.50	I P	15.0		75.3	79-121	11.7	25	QL-03
Methyl tert-butyl ether	6.07	0.50	15	5.00		121	73-127	12.1	25	
Di-isopropyl ether	5.99	0.50	10	5.07		118	69-96	0.831	25	QL-03
Ethyl tert-butyl ether	6.27	0.50	н	5.08		123	76-117	0.319	25	QL-03
Tert-amyl methyl ether	6.45	0.50	"	5.16		125	80-122	1.41	25	QL-03
Tert-butyl alcohol	84.9	10	11	98.2		86.5	53-132	6.32	2.5	
1,2-Dichloroethane	5.82	0.50	1:	5.00		116	78-115	1.38	25	QL-03
Chlorobenzene	4.85	0.50	19	5.00		97.0	82-112	1.84	25	
1,3-Dichlorobenzene	3.92	0.50	h	5.00		78.4	82-117	11.3	25	QL-03
1,4-Dichlorobenzene	4.74	0.50	n	5.00		94.8	85-113	5.74	25	
1,2-Dichlorobenzene	4.74	0.50	**	5.00		94.8	83-113	3.73	25	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



e-mail: clientservices@alpha-labs.com • Phone (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Page 14 of 15

Trans Tech Consultants

930 Shiloh Rd., Bldg.44, Suite J

Windsor, CA 95492

Attn: Bill Wiggins

Receipt Date/Time

Report Date: 03/30/05 11:47

Project No: 3046.01

Project ID: Ferndale Motors

Client PO/Reference

Order Number A503566

03/17/2005 15:10

Client Code TRANSTEC

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Sp <mark>ik</mark> e Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC52516 - EPA 5030 Water	GCMS									
LCS Dup (AC52516-BSD1)				Prepared:	03/22/05	Analyzed	: 03/23/05			
1,2-Dibromoethane (EDB)	4.94	0.50	"	5.00		98.8	84- 1 17	1.61	25	
Surrogate: Bromofluorobenzene	29.9		11	25.0		120	45-147			
Surrogate: Dibromofluoromethane	30.7		n	25.0		123	85-12 9			
Surrogate: Toluene-d8	32.9		n	25.0		132	74-137			
Matrix Spike (AC52516-MS1)	Soul	rce: A503	548-02	Prepared:	03/22/05	Analyzed	l: 03/23/05			
Benzene	4.81	0.30	ug/l	5.00	ND	96.2	63-144		····	
Toluene	5.85	0.30	11	5.00	ND	117	65-145			
Ethylbenzene	4.39	0.50	17	5.00	ND	87.8	57-155			
Xylenes (total)	12.4	0.50	19	15.0	ND	82.7	59-149			
Methyl tert-butyl ether	5.14	0.50	11	5.00	ND	103	62-156			
Di-isopropyl ether	5.51	0.50	11	5.07	ND	109	58-115			
Ethyl tert-butyl ether	5.70	0.50	*1	5.08	ND	112	57-147			
Tert-amyl methyl ether	5.46	0.50	н	5.16	ND	106	53-153			
Tert-butyl alcohol	81.0	10	It	98.2	ND	82.5	41-147			
1,2-Dichloroethane	5.22	0.50	17	5.00	ND	104	61-134			
Chlorobenzene	4.90	0.50	0	5.00	ND	98.0	62-139			
1,3-Dichlorobenzene	4.41	0.50	17	5.00	ND	88.2	59-140			
1,4-Dichlorobenzene	4.96	0.50	ય	5.00	ND	99.2	62-136			
1,2-Dichlorobenzene	4.87	0.50	**	5.00	ND	97.4	62-137			
1,2-Dibromoethane (EDB)	4.97	0.50	Įŧ	5.00	ND	99.4	58-140			
Surrogate: Bromofluorobenzene	32.3	• • • • • • • • • • • • • • • • • • • •	и	25,0		129	45-147			
Surrogate: Dibromofluoromethane	32.0		"	25.0		128	85-129			
Surrogate: Toluene-d8	32.0		n	25.0		128	74-137			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha Analytical Laboratories Inc.

208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Page 15 of 15

Trans Tech Consultants

930 Shiloh Rd., Bldg.44, Suite J

Windsor, CA 95492

Attn: Bill Wiggins

Report Date: 03/30/05 11:47

Project No: 3046.01

Project ID: Ferndale Motors

Order Number A503566

Receipt Date/Time

03/17/2005 15:10

Client Code TRANSTEC Client PO/Reference

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates.
R-06	The Reporting Limits for this analysis have been raised to account for matrix interference.
R-04	The Reporting Limits for this analysis are elevated due to sample foaming.

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS
	and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is
	acceptable.

QL-03	Although the LCS/LCSD recovery for this analyte is outside of in-house developed control limits, it is within
	the EPA recommended range of 70-130%.

D-08 Results in the diesel organics range are primarily due to overlap from a gasoline range product.

Analyte DETECTED DET

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

PQL Practical Quantitation Limit

CHAIN OF CUSTODY RECORD WORK ORDER

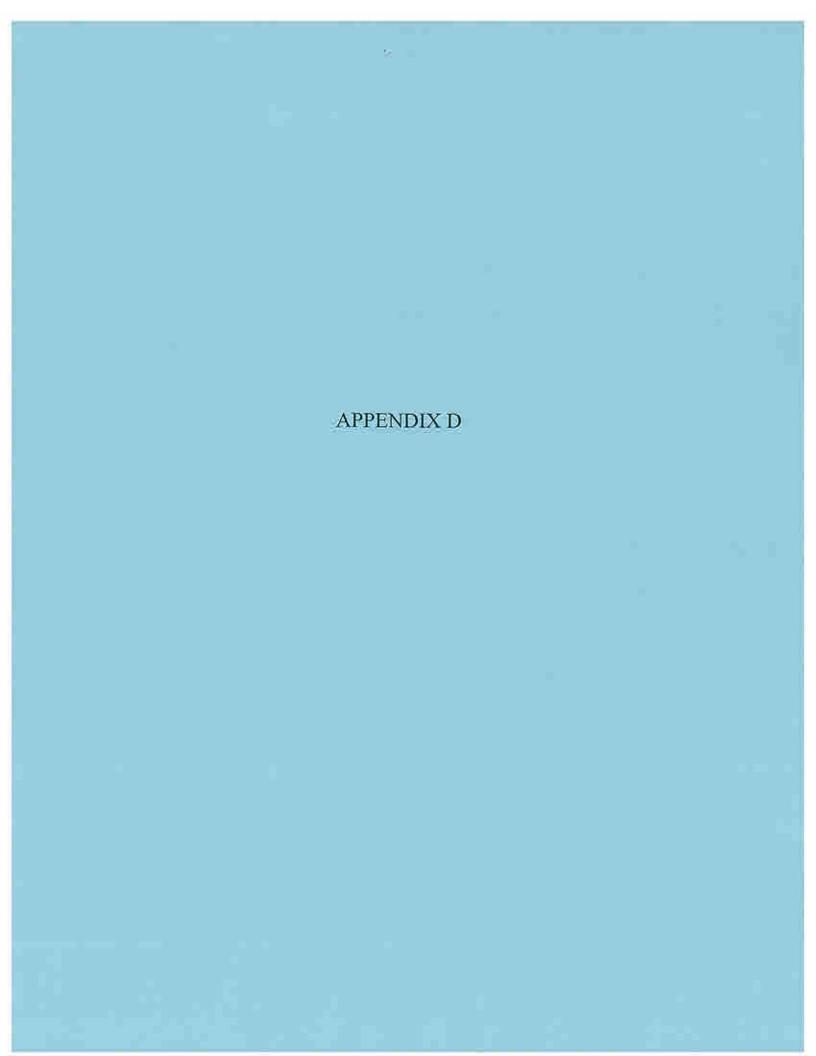
Alpha ¹ Analytical Laboratories Inc. • 208 Mason Street, Ukiah, CA 95482 • (707) 468-0401 • FAX (707) 468-5267

HAZARDOUS MATERIALS ARE THE PROPERTY OF THE CLIENT. THE CLIENT IS RESPONSIBLE FOR PROPER DISPOSAL OF HAZARDOUS WASTES, CLIENTS NOT PICKING UP HAZARDOUS WASTES MAY BE ASSESSED AN APPROPRIATE FEE. 1. STORAGE TIME REQUESTED
(SAMPLES WILL BE STORED FOR 30 DAYS WITHOUT ADDITIONAL CHARGES: THEREAFTER STORAGE CHARGES WILL BE BILLED AT THE PUBLISHED RATES.) **EXPLAIN IRREGULARITIES BELOW** SAMPLE CONDITION ON RECEIPT: TURN AROUND TIME REQUESTED 2002 2002 WERE SAMPLES PRESERVED? BUBBLES OR AIR SPACE? 2. SAMPLE TO BE RETURNED TO CLIENT? ☐ YES ☐ NO STOS PAGE COLD/ICED? GestRACKE ANALYSES DATE. SAMPLE CONTROL CIFICER SAMPLE DESPOSITION: 13.20 MIGGINS SAMPLE TYPE UND AIR SOLIDICOMP 1881 TOTAL TIME PHONE NUMBER BRIGHT SITE CONTACT FAX NUMBER 9 LAB SAMPLE NUMBER SAMPLED BY RECEIVED FOR LABORATORY BY: 모 AUTHORIZED BY (SIGNATURE) 🖔 RECEIVED BY: RECEIVED BY (SIGNATURE) STATE 4.20 3:30 3-40 4:10 3:30 TIME 4.29 DATE Scarebonoup Motors SIGNATURE OF PERSON AUTHORIZING WORK UNDER TERMS STATED ON REVERSE SIDE OF THIS FORM. CONTRACT/PURCHASE ORDER/QUOTE NUMBER SAMPLE NUMBER/IDENTIFICATION FERNONIE CLIENT'S NAME JOHN alpha F-MM 5 SPECIAL INSTRUCTIONS METHOD OF SHIPMENT 132 135 MEN STREET ADDRESS THE WI 187 RELINQUISHED BY RELINQUISHED BY RELINQUISHED BY PROJECT NAME

DRIVING TIME

(SIGNATURE)

(SIGNATURE)



Appendix D - Historical Groundwater Analytical Results

Sample Date	Monitoring Well	TPH as Gas	TPH as Diesel	В	т	Ē	x	Chlorinated Solvents	MtBE + Oxygenates	Metals: Cd, Cr, Pb, Ni, & Zn
							μg/l	L.		
0.5 (0.0 (0.0	MW-1	2,600	ND	36	3.1	ND	3.0	(see Note 1)	ND	NA
07/08/98	MW-2	ND	ND	ND	ND	ND	ND	ND	ND	NA
	MW-3	250	ND	25	1.9	ND	ND	(see Note 2)	(see Note 3)	ND
Note 1 =	The follo	n-propyl 1,3,5-trir 1,2,4-trir	benzene nethylbenz nethylbenz	zene	27.0 18.0 5.5 9.3	bove th	e labor	atory reporting l	imits in this sam	ple:
NA = Note 2 =	naphthalene 13.0 Not Analyzed for during this sampling event									
Note 3 =	The follo		npounds w	ere dete 5.2 20.0		oove th	e labor	atory reporting li	imits in this samp	ole:

Sample Date	Monitoring Well ID	TPH as Gasoline	TPH as Diesel	В	T	E	x	MtBE
					μg/L			
	MW-1	5,000	1,800*	83	33	33	31	ND
	MW-2	ND	ND	ND	ND	ND	ND	ND
12/30/99	MW-3	2,800	1,200*	400	16	28	19	ND
	PZ-1	ND	ND	ND	ND	ND	ND	ND
	MW-1	2,400	480*	28	5.9	18	7.9	ND
03/28/00	MW-2	ND	ND	ND	ND	ND	ND	ND
	MW-3	5,700	600*	750	13	37	ND	ND
	PZ-1	ND	ND	ND	ND	ND	ND	ND
	MW-1	1,500	600*	41	3.5	17	13	<25
	MW-2	ND	ND	ND	ND	ND	ND	<25
09/07/00	MW-3	1,200	650*	240	4.0	22	13	2.5**
	PZ-1	ND	ND	ND	ND	ND	ND	<25
	MW-1	1,100	1,100	35	6.0	22	13	<50
	MW-2	ND	ND	ND	ND	ND	ND	<50
11/15/00	MW-3	1,500	220	230	ND	5.8	ND	<50
	PZ-1	ND	ND	ND	ND	ND	ND	<50
	MW-1	NS	NS	NS	NS	NS	NS	NS
02/20/01	MW-2	NS	NS	NS	NS	NS	NS	NS
03/28/01	MW-3	NS	NS	NS	NS	NS	NS	NS
	PZ-1	NS	NS	NS	NS	NS	NS	NS
	MW-1	920	<50	24	4.7	9.1	14	<10
	MW-2	<50	<50	1.1	<1.0	0.60	<1.0	2.7
07/26/01	MW-3	1,600	ND	210	12	20	20	<25
	PZ-1	<50	<50	4.8	<1.0	1.0	1.9	<1.0

Sample Date	Monitoring Well ID	TPH as Gasoline	TPH as Diesel	В	Т	E	x	МТВЕ			
		μg/L									
	MW-1	850	68*	3.8	<1.0	2.6	1.6	<1.0			
	MW-2	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0			
10/16/01	MW-3	570	120*	67	<1.0	3.1	<1.0	<1.0***			
	PZ-1	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0			

⁼ Higher boiling point components of gasoline are present

= Not Sampled

Sample Date	Monitoring	Total Alkalinity	Free CO ₂ *	NO ₃ -1	SO ₄ -2	Mn	Fe *2	ORP	
	Well ID	mg CaCO ₃ /L	mg CO ₃ /L		mVolts				
	MW-1	410	210	<0.5	3.1	3.2	19	140	
10/16/01	MW-2	110	170	11	29	0.031	<0.5	270	
10/16/01	MW-3	530	270	<0.5	2.7	4.3	18	170	
	PZ-1	270	54	2.1	63	0.090	<0.5	260	

⁼ In addition, fuel oxygenates were detected.

^{= 1,2-}dichloroethane (EDC) was also detected at 8.8 ug/L

ND = Not detected at or above laboratory detection limits (See laboratory report for detection limits).

Sample Date	Monitoring Well ID	TPH as Gasoline	TPH as Diesel	В	T	E	х	MtBE
		ji.			μg/L			
	MW-1	4,600	540*	50	9.1	13	<5.0	<5.0
01/14/02	MW-2	<50	<50	<0.3	<0.3	<0.5	<0.5	2.7
01/14/02	MW-3	1,000	290*	250	4.0	18	<5.0	<5.0
	PZ-1	NS	NS	NS	NS	NS	NS	NS
	MW-1	1,800	290*	29	4.9	7.4	6.6	<0.5
04/22/02	MW-2	<50	<50	0.38	1.9	0.82	2.8	2.6
	MW-3	2,400	240*	300	1.6	3.6	4.3	1.2
	PZ-1	<50	<50 ×	0.47	1.6	0.73	2.4	<0.5
	MW-1	880	130*	23	2.4	6.2	1.4	<0.50
07/00/00	MW-2	<50	<50	0.41	<0.30	<0.50	<0.50	2.0
07/23/02	MW-3	2,400	240*	430	3.3	13	3.5	<0.50
	PZ-1	<50	<50	0.75	<0.30	<0.50	<0.50	<0.50
	MW-1	1,100	170	16	1.1	4.0	1.2	<0.50***
	MW-2	<50	<50	<0.30	<0.30	<0.50	< 0.50	1.6
	MW-3	950	81**	69	0.94	2.5	1.2	<0.50***
12/04/02	MW-4	<50	<50	<0.30	<0.30	<0.50	<0.50	< 0.50
	MW-5	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-6	<50	<50	<0.30	<0.30	<0.50	< 0.50	<0.50
	PZ-1	<50	<50	<0.30	< 0.30	< 0.50	<0.50	<0.50

⁼ Higher boiling point components of gasoline are present.

<sup>The sample chromatographic pattern does not resemble the fuel standard used for quantitation.
See laboratory report for additional analytes detected.</sup>

⁼ Indicates the laboratory test method detection limit.

NS = Not Sampled

Sample Date	Monitoring Well ID	TPH as Gasoline	TPH as Diesel	В	T	E	X	MtBE
					μg/L			
	MW-1	3,900	520*	53	7.0	14	<5.0***	<5.0***
	MW-2	<50	<50	<0.30	<0.30	<0.50	<0.50	1.3
	MW-3	2,600	200*	290	<3.0	9.3	<5.0***	<5.0***
03/26/03	MW-4	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-5	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	PZ-1	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-1	2,100	140	30	<30	<50	<50	<50
	MW-2	<50	190****	<0.30	<0.30	<0.50	<0.50	1.0
	MW-3	1,600	<50	170	<30	<50	<50	<50
09/10/03	MW-4	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-5	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	PZ-1	<50	<50	<0.50	<0.30	<0.50	<0.50	<0.50
3/04/04	MW-1	5,200	660*	73	<6.0	32	<10	<10
3/03/04	MW-2	<50	<50	<0.30	<0.30	<0.50	<0.50	1.9
3/04/04	MW-3	3,000	560*	460	<30	<50	<50	<50
	MW-4	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
3/03/04	MW-5	<50	230	<0.30	<0.30	<0.50	<0.50	< 0.50
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
3/04/04	PZ-1	<50	110	<0.50	<0.30	<0.50	<0.50	< 0.50

 [#] Higher boiling point components of gasoline are present.
 ** See laboratory report for additional analytes detected.
 *** Elevated laboratory detection limit due to matrix interference.
 **** The sample was apparently mis-labeled and results appear to be consistent with historical results from MW-3
 Indicates the laboratory test method detection limit.

Sample	Monitoring Well ID	TPH-g	TPH-d	В	T	E	X	MtBE		
Date		μg/L								
	MW-1	3,600	390*	56	<15	<25	<25	<25		
	MW-2	<50	<50	<0.30	<0.30	<0.50	<0.50	0.95		
	MW-3	3,700	340*	440	<15	<25	<25	<25		
7/02/04	MW-4	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50		
	MW-5	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50		
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50		
	PZ-1	<50	<50	<0.50	<0.30	<0.50	<0.50	<0.50		

Less than the indicates laboratory test method detection limit.
 Higher boiling point constituents of gasoline are present.

Sample	Well ID	Total Alkalinity as CaCO ₃	Dissolved Oxygen (DO)	Nitrate (NO ₃)	Sulfate (SO ₄)					
Date		mg/L								
-	MW-1	380	0.46	<1.0	<0.50					
	MW-2	NA	0.73	NA	NA					
7/02/04	MW-3	490	0.62	<1.0	1.5					
7/02/04	MW-4	NA	1.93	NA	NA					
	MW-5	70	0.59	<1.0	12					
	MW-6	71	3.45	<1.0	13					
	PZ-1	200	0.45	1.2	46					

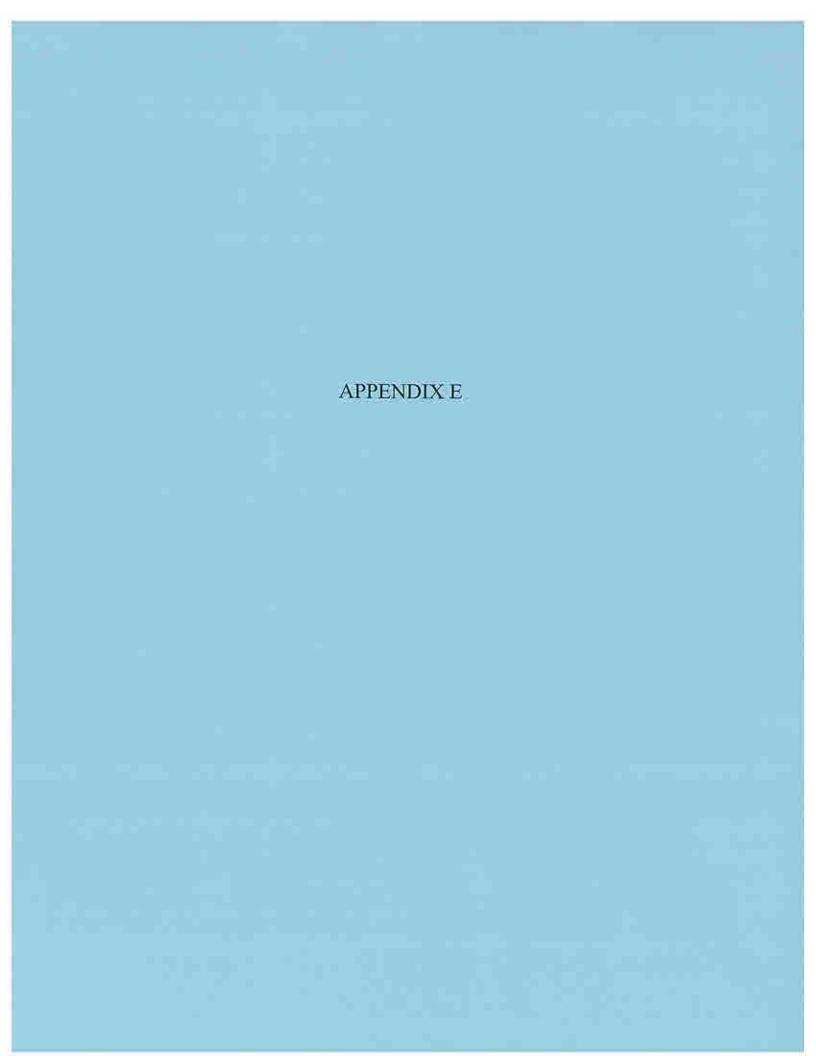
Less than the indicated laboratory test method detection limit. NA Not analyzed.

Page 6 of 7

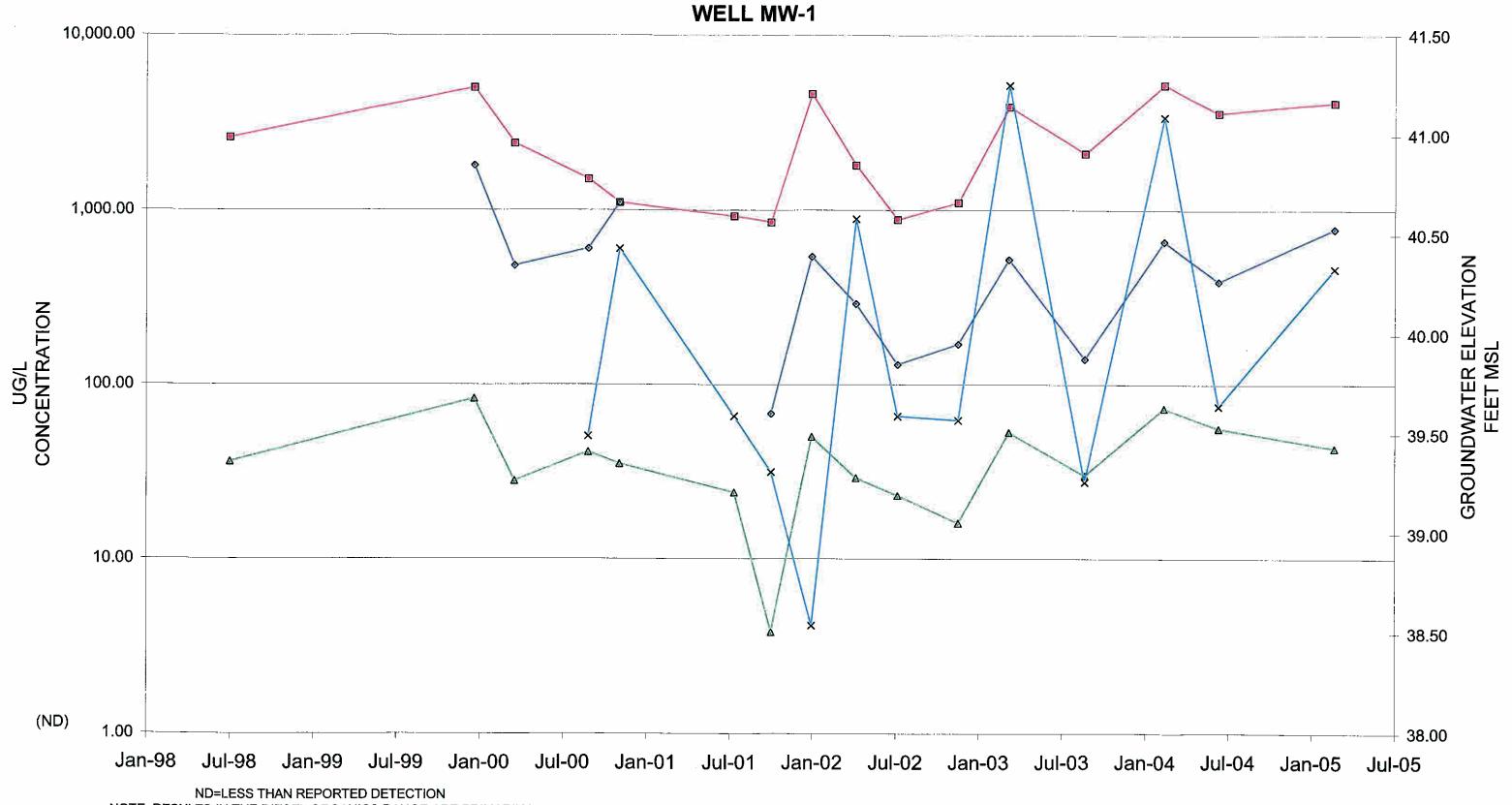
Sample	Monitoring Well ID	TPH-g	TPH-d	В	T	E	X	MtBE		
Date		μg/L								
	MW-1	4,100	780*	43	11	15	7.1	<2.5		
	MW-2	<50	<50	<0.30	<0.30	<0.50	<0.50	0.71		
	MW-3**	2,200	460*	270	<6.0	<10	<10	<10		
03/15/05	MW-4	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50		
	MW-5	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50		
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50		
	PZ-1	<50	<50	<0.50	<0.30	<0.50	<0.50	<0.50		

⁼ Less than the indicates laboratory test method detection limit.

Results in the diesel organics range are primarily due to overlap from a gasoline range product.
 Reporting Limits have been raised due to sample foaming.



TIME vs. CONCENTRATION GRAPH FERNDALE MOTORS 638 MAIN ST FERNDALE TTC Job No. 3046.01

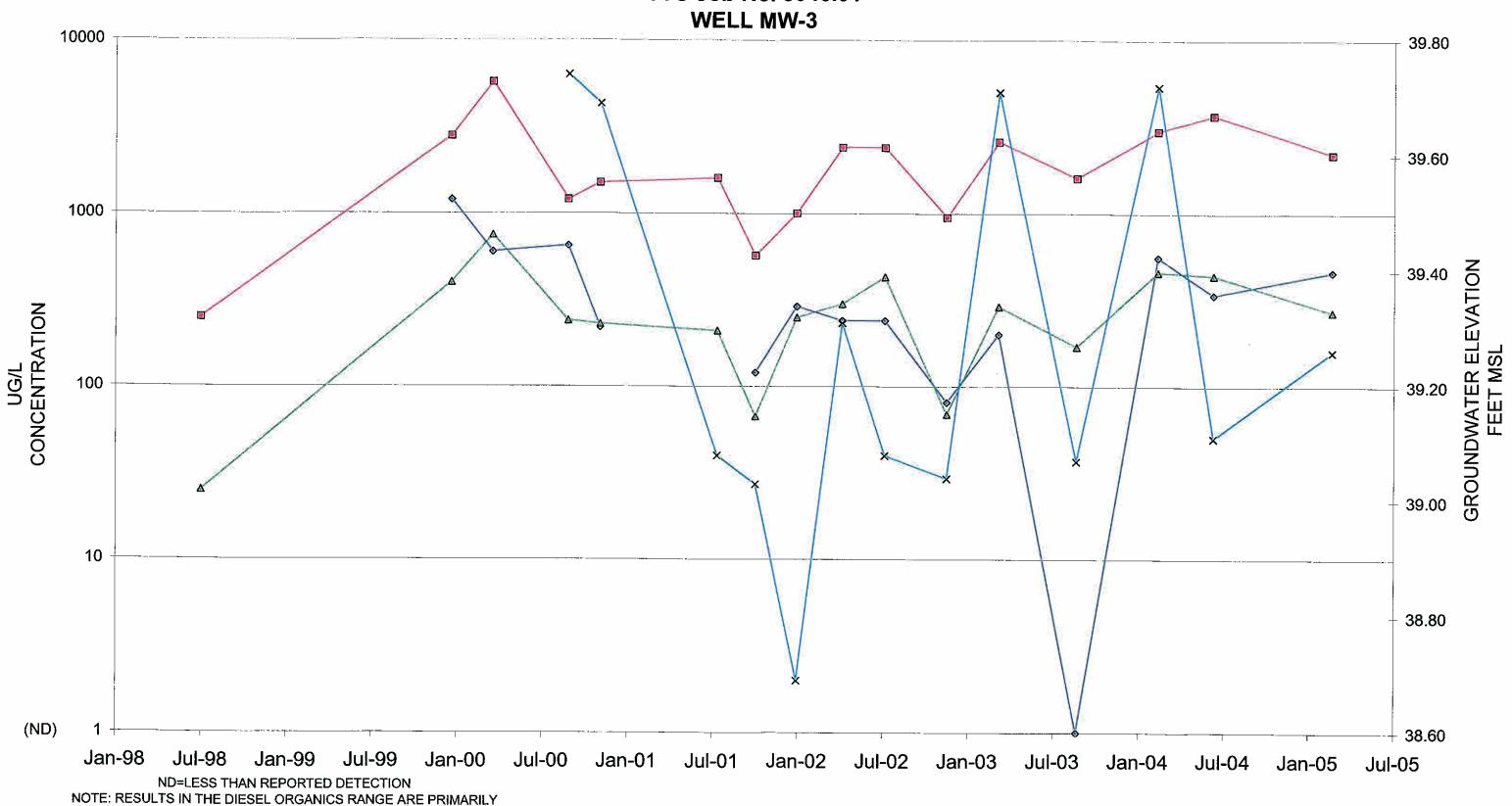


ND=LESS THAN REPORTED DETECTION

NOTE: RESULTS IN THE DIESEL ORGANICS RANGE ARE PRIMARILY

DUE TO OVERLAP FROM A GASOLINE RANGE PRODUCT (SEE LABORATORTY REPORTS).

TIME vs. CONCENTRATION GRAPH FERNDALE MOTORS 638 MAIN ST FERNDALE TTC Job No. 3046.01



DISTRIBUTION LIST

1st Quarter 2005 Monitoring Report

Ferndale Motors 638 Main Street Ferndale, California

> April 12, 2005 Job No. 3046.01

Mr. Mark Verhey Humboldt County Department of Health and Human Services Division of Environmental Health 100 H Street, Suite 100 Eureka, California 95501

North Coast Regional Water Quality Control Board 5550 Skylane Boulevard, Suite A Santa Rosa, California 95403